#### tuncmatik

# tuncmatik ULTRA**ONE** 60/80/100/120/160/200 kVA

ONLINE UP

# ULTRAONE

#### True double conversion online technology

Online UPS is the most suitable choice, especially for computers and other sensitive devices. This type of UPS completely isolates your sensitive devices from the mains and feeds your sensitive devices connected with the help of filters in the mains. As a result, all unwanted situations that may occur in the network are filtered by the online UPS and your sensitive devices are fed with pure power.

#### Pure sinewave output

Full compatibility with all kinds of electrical devices, the ideal solution for your medical and similar critical applications.

#### Wide input voltage range (305-478 VAC)

Ability to work online even at very low and very high voltages without switching to the battery.

#### Input power factor correction (PF=0.99)

It does not impose an additional compensation load on your line. It saves on your electricity bills.

#### High output power factor (PF=1)

The UPS provides 28% extra power at the output compared to the standard UPS which are 0.7 power factor. That's why, it supports more electrical/electronics devices.

#### Intelligent charging technology for optimal battery performance

Since it charges the battery with a special charging technique, it extends the life of the battery, reduces your operating costs and provides savings.

#### High performance microprocessor

Thanks to the digital structure and high speed of the CPU-controlled control board is provides full protection by performing the protection functions of the UPS such as overload, short circuit, low-high voltage and over-temperature in a timely manner, thus ensuring that the UPS has a stable and reliable structure.

#### Capacity up to 200kVA in compact structure

It allows high-power devices to be placed in tight spaces such as server rooms.



#### High online efficiency

Thanks to its advanced technology, PowerUP X9 reaches an average efficiency level of %93 and pays of its investment cost in a short time.

#### Parallel structure (Optional)

tunematik

PowerUP X9 UPS has the ability to parallel up to 6 units. A communication cable is sufficient for this.

#### **Generator compatibility**

By facilitating power transition from generator to load, it allows you to use generator with lower capacity.



With the easy to read multifunctional LCD display everything is under control. Thanks to new advanced LCD screen, input-output values and alarms can be easily monitored.

#### tuncmatik

# tuncmatik ULTRA**ONE** 60/80/100/120/160/200 kVA

ONLINE UI



MODEL		60 kVA	80 kVA	100kVA	120 kVA	160 kVA	200 kVA				
CAPACITY (kVA/	kW)	60	80	100	120	160	200				
INPUT											
Nominal Voltage	2		380/400/415 VAC								
Phase				3 Phase + N	eutral + Earth						
Voltage Range				138~	485Vac						
Frequency Range	e .			40Hz	- 70Hz						
Power Factor				≥(	).99						
Current THDi <3% (100% non-linear load)											
Bypass Voltage R	lango	220	Vac Max Voltage: +25%	(optional +10%,+15%,+20	% ); 230Vac Max Voltage:	: +20%(optional +%10, +	%15);				
bypass voltage h	lige	240Vac Max V	oltage: +15%(optional +	10% ); Min. voltage: -45%	6 (optional -%10, -%20, -%	%30); Frequency protec	tion range: ±10%				
Generator Input				Sup	ports						
OUTPUT											
Power Factor					L.O						
Nominal Voltage	2			380/400	/415 VAC						
Voltage Regulati	on			±	%1						
Frequency Range		1. Line N	lode: sync with login; in	put frequency > ±%10 wh		optional), output (50/6	0 ±%0.1)Hz				
		2. Battery Mode: (50/60 ±%0.1)Hz									
Crest Factor					3:1						
THD∨				≤%2 (linear load), ≤	%4 (non-linear load)						
Overload	AC Mode Battery Mode	Load ≤110%: 60 min., ≤125%: 10 min, ≤150%: 1 min.									
oventoad	Bypass Mode	Temperature <30 ,	load ≤135%: works for I	ong time / Temperature <	<40 , load ≤125%: works	s for long time / %1000	oad : runs up to 100ms				
Efficiency				9	5%						
Transfer Time				Normal to battery: 0ms	; Normal to bypass: Oms						
BATTERY				·							
Voltage		Optional Voltagej: ±180V/192V/±204V/±216V/±228V/±240/±252/±264/±276/±288/±300Vdc (30/32/ 34/36/38/40/42/44/46/48/50 peice optional)									
voltage		360Vdc~600Vdc (30~50 peice, 30 peice defined, 32 & 50 peice without power loss; 30 peice output power factor 0.8)									
Current Charge (	A)	Max Current 20A		Max Current 40A		Max Cu	irrent 60A				
SYSTEM FEATUR	ES										
Alarm				Overload, Line abnormal,	, UPS fult, Low battery, e	tc.					
Protection			Short circu	it, Overload, Over tempe	rature, Undercurrent, Fa	n fault alarm					
Communication		USB, RS232, RS485, Parallel port, REPO port, LBS port, Backfeed port, Intelligent slot, SNMP card (optional), Relay card (optional)									
Status LED & LCD		Line mode, Bypass mode, Battery low, Battery fault, Overload, UPS failure									
LCD Panel		Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Batery voltage									
EPO (optional)				UPS shu	uts down						
ENVIRONMENTA											
Operating Tempe				0 ~							
Storage Tempera	ature				vithout battery)						
Humidity		0~95% relative humidity (non-condensing)									
Noise Level		<60dB	<61dB	<62dB	<63dB	<66dB	<68dB				
Altitude			<1	1500m. When >1500m, red	luce the rated power for	use					
DIMENSIONS & \	WEIGHI	250 020 022			442 050 4255						
W x D x H (mm)		250 x 828 x 868		F 2 7	442 x 850 x 1200	70.4					
Weight (kg)		398		537		794					
STANDARDS					2 EN (IECC2040 4 4						
Safety					3, EN/IEC62040-1-1						
EMC			IEC/EN62040-3, IEC6100	00-4-2, IEC61000-4-3, IEC6	1000-4-4, IEC61000-4-5, IE	IEC/EN62040-3, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8					

\* Adjustable according to battery capacity

# TBS SERIES - UPS BATTERY TBS12V-100AH-10 (12V 100AH)



#### Specification

Nominal Voltage	12V				
Watts(15min R ate)	367.1 Watte at 1.67V/cell				
	Length 330±3mm (12.99 inch				
Dimension	Width 173±2mm (6.81 inche				
Dimension	Container Height 212±2mm (8.35 inche				
	Total Height (with Terminal) 220 $\pm$ 2mm (8.66 inche				
Approx Weight	Approx 30.0 kg (66.2lbs)				
Terminal	T11				
Container Ma terial	ABS				
	104.0 A H/10.4 A (10hr ,1.80V/cell,25 °C/77 °				
	100.0 A H/12.5 A (8hr,1.80V/cell,25 °C/77 °				
Rated Cap acity	89.0 A H/17.8 A (5hr,1.75V/cell,25 °C/77				
	81.6 A H/27.2 A (3hr,1.75V/cell,25 °C/77				
	78.0 A H/78.0 A (1hr,1.60V/cell,25 °C/77				
Max. Discharge Current	1200A (5s)				
Internal Re sistance	Approx 4.9m Ù				
	Discharge : -15 $\sim$ 50 $^{\circ}$ C (5 $\sim$ 122 $^{\circ}$ F)				
Operating Temp.Range	Charge : 0 $\sim$ 40 $^{\circ}$ C (32 $\sim$ 104 $^{\circ}$ F )				
	Storage : $-15 \sim 40^{\circ}$ C (5 $\sim 104^{\circ}$ F)				
Nominal Operating Temp. Range	25±3°C (77 ±5°F)				
Cuele Has	Initial Charging Current less than 30.0A. Voltage				
C ycle U se	14.4V~15.0V a t 25° C (77° F)Temp. C oefficient - 30mV/°C				
	No limit on Initial Charging Current Voltage				
S tandby U s e	13.5V~13.8V at 25°C (77°F)Temp. C oefficient - 20mV/°C				
Capacity affected by	40°C (104°F) 103%				
Capacity affected by	25°C (77°F) 100%				
Temperature	0°C (32°F) 86%				
Self Discharge	TBS series batteries m ay be stored for up to 6 months at 25°C(7 7°F) and then a freshe ning charge is required. For higher temperatures the time interval will be s horter.				



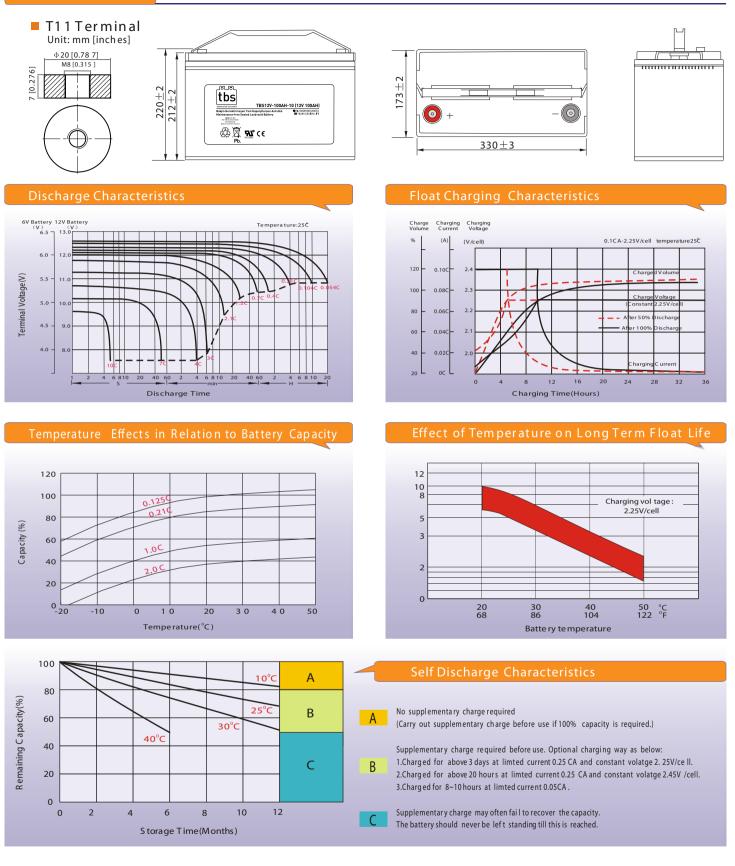
### **Applications**

- UPS (High rate)
- High power backup supply
- Emergency power supply
- Starting system
- Power tools
- Emergency lighting
- Electric starting

	Constant Current Discharge (Amperes) at 25 °C (7 7°F)														
F.V/Tim e	5min	10 min	15 min	20 min	30min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20 h
1.8 5V/cell	191.5	154.3	141.8	124.2	100.7	78.3	64.0	36.2	26.4	20.9	17.8	15.2	12.0	9.95	5.33
1.8 0V /ce ll	252.1	191.4	166.3	142.5	115.4	88.4	69.6	38.7	27.5	21.6	17.9	15.6	12.5	10.4	5.42
1.7 5V/cell	284.2	210.3	181.7	153.3	119.8	91.8	72.8	40.2	28.0	22.1	18.3	16.1	12.7	10.5	5.47
1.7 0V/cell	313.0	229.2	194.0	161.2	123.6	94.5	75.1	41.6	28.8	22.7	18.8	16.4	12.9	10.6	5.57
1.6 7V /cell	345.2	247.4	206.3	171.2	129.6	97.5	77.8	42.9	30.1	23.5	19.3	16.8	13.2	10.8	5.64
1.6 0V/cell	380.8	268.6	220.7	182.4	135.3	102.0	80.4	44.4	31.0	24.2	20.0	17.1	13.3	10.9	5.67

	Constant Power Discharge (Watts)at25 °C (77°F)														
F.V/Tim e	5min	10min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20 h
1.8 5V /ce ll	350.2	284.9	264.6	234.1	192.0	150.5	123.4	70.3	51.7	41.2	35.4	30.3	24.3	20.3	10.9
1.8 0V /ce ll	456.0	349.4	306.2	264.7	216.5	168.6	133.4	74.7	53.7	42.5	35.4	31.1	25.2	21.1	11.1
1.7 5V/cell	503.2	377.7	330.4	282.1	223.0	173.3	139.0	77.2	54.5	43.3	36.2	31.9	25.5	21.3	11.2
1.7 0V /ce ll	538.8	402.4	347.9	294.2	228.9	177.8	142.9	79.6	55.9	44.4	37.1	32.5	25.9	21.5	11.4
1.6 7V /ce II	585.8	430.4	367.1	310.3	238.0	181.9	147.0	81.9	58.0	45.7	38.0	33.1	26.3	21.9	11.5
1.6 0V /ce II	631.3	456.6	386.1	326.9	246.6	189.1	151.0	84.2	59.5	47.0	39.1	33.7	26.5	22.1	11.6

#### Dimensions





tunçmatik elektrik malzemeleri sanayi ve ticaret a.ş. yenişehir mah. imar iskan cad. no:3 34779 ataşehir/istanbul tel: +90.216.314.51.51 faks: +90.216.420.35.29 e-mail: info@tuncmatik.com



**Image Scanner** 



# RICOH SP-1425 Datasheet

Scanner

# Versatile dedicated scanning for your small office needs

The SP-1425 scans documents at 25 ppm/50 ipm (A4 portrait 200/300 dpi), loads up to 50 sheets at a time, and combines duplex ADF and flatbed into a single compact scanner.

#### User-friendly design for comfortable operation

Designed for use in various environments from cramped to more roomy spaces, the SP-1425 suits all business scanning needs - whether you need to scan documents for clerical jobs, or plastic cards and passports for identity/application operations at the office. Operation is simple with just 2 buttons to choose from. Store document data instantly, wherever you desire, and keep scanning procedures to the bare minimum.

#### Versatility for an efficient workflow

The SP-1425 equipped with ADF and flatbed, allows scanning of a wide variety of documents. Ultrasonic multi-feed sensors also assure stable feeding. These benefits combined with a wide variety of business system compatible scanning solutions, deliver ultimate efficiency at the office.

#### Software for ultimate business efficiency

PaperStream IP for SP Series, the scanner driver supporting both TWAIN and ISIS, enables you to bypass the inconvenience of making fine OCR setting adjustments. The software automatically converts scanned images into exceptionally clean images, raising OCR accuracy, even when scanning wrinkled and soiled documents, or documents with background patterns. With PaperStream Capture Lite, capture batches of all sizes with utmost efficiency.

#### Document software for maximized flexibility

Easily find the information you need, whenever you need to, with ABBYY FineReader Sprint and Presto! PageManager\* providing handy conversion functionalities - convert to searchable PDFs with Presto! PageManager and both searchable PDF and Microsoft Office documents with ABBYY FineReader Sprint. Specializing in OCR processing, ABBYY FineReader Sprint is compatible with over 190 languages and demonstrates powerful OCR recognition, even in mixed-language environments. Utilizing data is also more efficient with Presto! PageManager's powerful image data organization features and ability to integrate with various applications.

#### **Technical Information**

Scanner Type		ADF (Automatic Document Feeder) / Flatbed, Duplex				
Scanning S	peed™ (A4 Por	rtrait) (Color*2/Grayscale*2/Monochrome*3)				
ADF		Simplex: 25 ppm (200/300 dpi)				
		Duplex : 50 ipm (200/300 dpi)				
Flatbed		4 seconds (200/300 dpi)				
Image Sens	or Type	Single line CMOS-CIS x 2 (front / flatbed x 1, back x 1)				
Light Sourc	e	3 Color LED x 2 (front / flatbed x 1, back x 1)				
Optical Res	olution	600 dpi				
Output Res (Color / Gra Monochror	ayscale /	50 to 600 dpi (adjustable by 1 dpi increments), 1,200 dpi (driver) <sup>+5</sup>				
Output For	mat <sup>*6</sup>	Color: 24-bit, Grayscale: 8-bit, Monochrome: 1-bit				
Background	d Colors					
ADF		White				
Flatbed		Black				
Document	Size					
ADF	Maximum	216 x 356 mm (8.5 x 14 in.)				
	Minimum	114 x 140 mm (4.5 x 5.5 in.)				
	Long Page Scanning <sup>*7</sup>	3,048 mm (120 in.)				
Flatbed	Maximum	216 x 297 mm (8.5 x 11.7 in.)				
Paper Weig (Thickness)		52 to 127 g/m² (14 to 34 lb)				
ADF Capac		50 sheets (A4 80 g/m <sup>2</sup> or Letter 20 lb)				
Expected D Volume <sup>*10</sup>	aily	4,000 sheets				
Multifeed D	Detection	Overlap detection (Ultrasonic sensor)				
Interface*11		USB 2.0 / USB 1.1				
Power Requ	uirements	AC 100 to 240 V ±10 %				
Power Con	sumption					
Operatin	g Mode	16 W or less				
Sleep Mode		2.9 W or less				
Auto Standby (Off) Mode		0.5 W or less				
Operating	Environment					
Tempera	ture	5 to 35 °C (41 to 95 °F)				
Relative I	Humidity	20 to 80% (non-condensing)				

Environmental Compliance	ENERGY STAR®, RoHS					
Dimensions <sup>+12</sup> (Width x Depth x Height)	454 x 331 x 129 mm (17.9 x 13 x 5.1 in.)					
Weight	4.3 kg (9.5 lb)					
Supported Operating System	Windows® 11 <sup>*13</sup> , Windows® 10 <sup>*13</sup> , Windows Server® 2022, Windows Server® 2019, Windows Server® 2016, Windows Server® 2012 R2, Windows Server® 2012, Linux (Ubuntu)					
Software / Drivers	PaperStream IP for SP Series (TWAIN/TWAIN x64/ISIS), WIA Driver <sup>*14</sup> , Image Scanner Driver for Linux (SANE) <sup>*14*15</sup> , PaperStream Capture Lite <sup>*15*16</sup> , PaperStream ClickScan <sup>*15</sup> , Software Operation Panel, Error Recovery Guide, Scanner Central Admin Server, ABBYY <sup>TM</sup> FineReader Sprint <sup>TM*16</sup> , Presto! <sup>TM</sup> PageManager <sup>TM*16</sup>					
Image Processing Functions	Multi image output, Automatic color detection, Automatic page size detection, Blank page detection, Dynamic threshold (iDTC), Advanced DTC, SDTC, Error diffusion, Dither, De-Screen, Emphasis, Dropout color (None/Red/Green/Blue/White/Saturation/Custom), sRGB output, Split image, De-Skew, Edge filler, Vertical streaks reduction, Digital endorser, Background pattern removal					
Included Items	Pad unit, AC cab Setup DVD-ROM	ile, AC adapter, USB cable,				
Options		1				
PaperStream Capture for SP Series	PA43201-2502	PaperStream Capture optional license				
PaperStream Capture Pro Scan Station (WG)	PA43404-A665	PaperStream Capture Pro optional license				
Consumables						
Pad Unit	PA03753-0001	Every 30,000 sheets or one year				
Pick Roller Unit	PA03753-0002	Every 200,000 sheets or one year				

\*1 Scanning speeds may vary due to the system environment. For details, please visit our website at: https://www.pfu.ricoh.com/global/scanners/ti/. \*2 Indicated speeds are from using JPEG compression. \*3 Indicated speeds are from using TIFF CCITT Group 4 compression. \*4 Selectable maximum resolution may vary depending on the length of the scanned document. \*5 Limitations may apply to the size of documents that can be scanned, depending on system environment, when scanning at high resolution (over 600 dpi). \*6 Color depth indicates levels after driver processing. \*7 Supports documents with lengths of up to 3,048 mm (120 in.) when resolutions are set to 200 dpi or less. \*8 Paper weight limitations only apply when using the ADF. There are no limitations when using the flatbed. \*9 Maximum capacity depends on paper weight and may vary. \*10 Numbers are calculated using scanning speeds and typical hours of scanner use, and are not meant to guarantee daily volume or unit durability. \*11 Scanning speeds slow down when using USB 1.1. \*12 Excludes the ADF paper chute. \*13 fi Series scanners do not run with Windows\* 11 and 10 ARM-based PCs. \*14 Functions equivalent to those offered by PaperStream IP may not be available with the Image Scanner Driver for Linux or WIA Driver. \*15 Refer to the SP Series Support Site for driver/software downloads and full lineup of all supported.

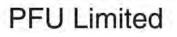
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Be sure to carefully read all safety precautions prior to using this product and use this device as instructed. Do not place this device in wet, moist, steamy, dusty or oily areas. Using this product under such conditions may result in electrical shock, fire or damage to this product. Be sure to limit the use of this product to listed power ratings.

ENERGY STAR®

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https://www.pfu.ricoh.com/global/



# i-SENSYS X 1238i Series

# FLEXIBLE, COMPACT DEVICES COMPLEMENTING ANY OFFICE PRINT ENVIRONMENT

A4 black and white multifunction printers with mobile and cloud connectivity







# i-SENSYS X 1238i Series

#### PRODUCTIVITY

- Intuitive display with tablet like operability
- Application Library with customisable function
- Automatic double-sided printing
- Fast duplex scanning with One Pass scan

#### 

- Embedded User Authentication secures access to device
- Secure Print prevents unauthorised viewing of printed material
- Encrypted PDF protects you documents
- Verify System at Start-up enhances device integrity

#### 

- Print and scan from mobile devices wherever you are
- Mopria, Apple Air Print and Google Cloud Print compatible
- Connect to cloud through Canon's uniFLOW Online software



- Small footprint, ideal as a desktop configuration
- All-in-one cartridge with increased toner yield
- Optional cassettes for enhanced input capacity
  - Easy access to replace consumables

#### **ONTROL AND MAINTENANCE**

- Cloud based output management for centralised control
- Flexible user management solutions
  - Remote access to device control functions
  - Toner status tool reduces downtime

#### QUICK FACTS

#### i-SENSYS X 1238i

- Print, Copy, Scan, and Send
- 5-inch/12.7cm TFT LCD touchscreen
- Print Speed: 38ppm (A4)
- Print resolution: up to 1,200 x 1,200 dpi
- Automatic double-sided printing
- Scan speed: up to 70ipm
- Network, Wi-Fi, USB and QR code connectivity
- Max paper input capacity: 900 sheets

#### i-SENSYS X 1238iF

- Print, Copy, Scan, Send and Fax
- 5-inch/12.7cm TFT LCD touchscreen
- Print Speed: 38ppm (A4)
- Print resolution: up to 1,200 x 1,200 dpi
- Automatic double-sided printing
- Scan speed: up to 70ipm
- Network, Wi-Fi, USB and QR code connectivity
- Max paper input capacity: 900 sheets

#### SERVICES



Perform routine office operations safely and with ease, utilising embedded software including uniFLOW Online Express and other available services offering complete device maintenance and support



ENHANCED

Expand cloud capabilities with uniFLOW Online, Canon's all-in-one print management system

#### BESPOKE

Choose a tailored service to suit your business needs by removing unnecessary print management burdens. Consult with Canon experts about your specific requirements to find a fitting Print Managed Services option

# Canon

## TECHNICAL SPECIFICATIONS

# i-SENSYS X 1238i Series

Machine type	Mono Laser All-In-One	Sequential broadcast	Max. 310 destinations
Available functions	i-SENSYS X 1238iF:Print, Copy, Scan and Fax	Memory backup	Permanent fax memory backup
	i-SENSYS X 1238i:Print, Copy, Scan		(Backup with flash memory)
PRINTER		Double sided faxing	Yes (Transmit and Receive)
Print speed	Single sided : Up to 38 ppm (A4) Up to 63.1 ppm(A5-Landscape)	Other features	Fax Forwarding, Dual Access, Remote Reception, PC Fax (TX only) DRPD, ECM, Auto Redial, Fax Activity Reports, Fax Activity Result Reports, Fax Activity Management Reports
	Double sided : Up to 31.9 ipm (A4)		
Printing method	Monochrome laser beam printing	MEDIA HANDLING	Distance 2 side of ADE (simple mean)
Print resolution	Up to 1200 x 1200	Scanner type Paper input (Standard)	Platen, 2-sided ADF (single pass) 250-sheet cassette
Warm-up time	Approx. 14 seconds or less from power on		100-sheet multi-purpose tray
First Print Out Time	Approx: 5.5 seconds or less	Denovinnut (Ontion)	50-sheet ADF
Printer languages	UFRII, PCL 5e <sup>1</sup> , PCL6, Adobe <sup>®</sup> PostScript3	Paper input (Option) Paper output	550-sheet cassette 150-sheet
Fonts	93 PCL fonts 136 PostScript fonts	Media types	Plain paper, Recycled paper, Heavy Paper, Thin
Print margins	5 mm-top, bottom, left and right 10 mm-top, bottom, left and right (Envelope)	Media sizes	paper, Label, Post card, Envelope Cassette (Standard and optional):
Toner saver mode	Yes		A4, A5, A5 (Landscape), A6, B5, Legal, Letter, Executive, Statement, OFFICIO, B-OFFICIO,
Advanced printing features	Secure Print Print from USB memory key (JPEG/TIFF/PDF) Barcode Print <sup>2</sup> Google Cloud Print Ready iOS: AirPrint, Canon PRINT Business app Android; Mopria certífied, Canon PRINT Business app, Canon Print Service Plug-in		M-OFFICIO, GLTR, GLGL, Foolscap, 16K, Custom sizes: Min. 105 x 148 mm Max. 216.0 x 355.6 mm. Multi-purpose tray: A4, A5, A5 (Landscape), A6, B5, Legal, Letter, Executive, Statement, OFFICIO, B-OFFICIO, M-OFFICIO, GLTR, GLGL, Foolscap, 16K, Indexcard, Envelope (COM10, Monarch, C5, DL), Custom sizes:
COPIER			Min 76.2 x 127 mm Max. 216.0 x 355.6 mm.
Copy speed	Single sided (A4): Up to 38 ppm Double sided (A4): Up to 30.3 ipm		ADF: A4, A5, A6, B5, Legal, Letter, Statement, Custom
First Copy Output Time (FCOT)	ADF (A4): Approx. 6.6 seconds or less Platen (A4): Approx. 6.4 seconds or less		sizes: Min. 105 x 128 mm Max 215.9 x 355.6 mm
Copy resolution	Up to 600 x 600 dpi	Media weights	Cassette (standard and optional): 60 to 120 g/m² Multi-purpose tray: 60 to 163 g/m²
Copy modes	Text, Text/Photo (Default),Text/Photo (High		ADF: 50 to 105 g/m <sup>2</sup>
Double sided copying	Quality), Photo 2-sided to 2-sided (Automatic)	Double sided printing	A4, Legal, Letter, OFFICIO, B-OFFICIO, M-OFFICIO, GLGL, Foolscap
Multiple copy	Up to 999 copies		Custom size - Min. 210 x 279.4 mm
Reduction / Enlargement	25-400% in 1% increments		Max. 216.0 x 355.6 mm 60 to 120 g/m²
Other features	Frame Erase, Collate, 2 on 1, 4 on 1, ID card copy		
CCANNED.		INTERFACE & SOFTWARE	
SCANNER Type	Colour	Interface type	USB 2.0 Hi-Speed, 10BASE-T/100BASE- TX/1000Base-T, Wireless 802.11b/g/n, Wireless Direct Connection
Scan resolution	Optical: Up to 600 x 600 dpi Enhanced: Up to 9600 x 9600 dpi	Operating System	Windows® 10 / Windows® 8.1 / Windows® 7 / Server®
Scan speed	Single sided mono: 38ipm (300x600dpi) Single sided colour: 13ipm (300x600dpi) Double sided mono: 70ipm (300x600dpi) Double sided mono: 70ipm (200x 200c)	compatibility	2019 / Server* 2016 / Server* 2012R2 / Server* 2012 / Server* 2008R2 / Server* 2008 Mac OS X version 10.9.5 & up / Mac OS 10.15 & up Linux <sup>6</sup>
Colour scanning depth	Double sided colour: 26ipm (300x600dpi) 24 bit/24 bit (input/output)	Network Protocol	Print:
Greyscales	256 levels		LPD, RAW, Port9100, IPP, IPPS, WSD (IPv4,IPv6) Scan:
Compatibility	TWAIN , WIA, ICA		Email, SMB, WSD-Scan(IPv4, IPv6), FTP-Scan, iFAX TCP/IP Application Services:
Max. scan width	216mm		Bonjour(mDNS), HTTP, HTTPS, POP before SMTP
Scan to E-mail	TIFF/JPEG/PDF/Compact PDF/Searchable PDF/ Encrypted PDF3/PDF (Digital signature) <sup>3</sup>		(IPv4,IPv6) DHCP, ARP+PING, Auto IP, WINS (IPv4) DHCPv6 (IPv6)
Scan to PC Scan to USB memory key	TIFF/JPEG/PDF/Compact PDF/Searchable PDF/ Encrypted PDF <sup>3</sup> /PDF (Digital signature) <sup>3</sup> TIFF/JPEG/PDF/Compact PDF/Searchable PDF/		Management: SNMPv1, SNMPv3 (IPv4,IPv6) Security (wired):
Scan to FTP	Encrypted PDF3/PDF (Digital signature) <sup>3</sup> TIFF/JPEG/PDF/Compact PDF/Searchable PDF/		IP/Mac address filtering, IEEE802.1X, SNMPv3, SSL (HTTPS, IPPS)
Scan to Cloud	Encrypted PDF <sup>3</sup> /PDF (Digital signature) <sup>3</sup> TIFF/JPEG/PDF/PNG <sup>4</sup>		Security (wireless): WEP(64/128 bit), WPA-PSK(TKIP/AES), WPA2-PSK(AES)
iFAX	ITU-T.37		Infrastructure Mode: WEP(64/128 bit), WPA-PSK(TKIP/AES),
FAX	i-SENSYS X 1238iF only		WPA2-PSK(TKIP/AES) Access Point Mode: WPA2-PSK(AES)
Modem speed	33.6 Kbps (Up to 3 seconds/page <sup>5</sup> )	Software and printer	MF Scan Utility,
Receive mode	Fax only, Fax/Tel Auto Switch, Answer Mode, Manual	management	Remote User Interface (RUI), Department ID Management,
Fax resolution	Standard: 200 x 100 dpi Fine: 200 x 200 dpi Super fine: 200 x 400 dpi		Toner Status Tool, iW Enterprise Management Control: Server-based software for centralised management of a fleet of
	Ultra fine: 400 x 400 dpi		devices eMaintenance: embedded RDS allows remote
FAX memory Speed dials	Up to 512 pages⁵ Up to 281 dials		eMaintenance services such as meter capture,
Speed dials Group dials/destinations	Max. 299 dials / Max. 299 destinations		automatic consumables management and remote diagnostics.
			Universal Log-in Manager / uniFLOW online / uniFLOW online Express / uniFLOW Compatibility Application Library



## **TECHNICAL SPECIFICATIONS**

# i-SENSYS X 1238i Series

GENERAL FEATURES		ACCESSORIES/ OPTIONS	
Recommended Monthly Print Volume	750 - 4,000 pages per month	Items	i-SENSYS X 1238iF: CST.Feeding Module-AH1 (550-sheet cassette)
Duty cycle	Max. 80,000 pages per month <sup>7</sup>		TEL 6 Kit Long Cord (Telephone handset) Barcode Printing Kit-E1E
Processor Speed	800MHz x 2		MiCard Multi (Card reader for identification with
Memory	1GB		RFID or magnetic cards with uniFLOW) Micard Plus (Card reader for identification with
Control panel	12.7 cm LCD Colour Touch Screen		RFID or magnetic cards with uniFLOW)
Dimensions with trays (W x D x H)	453 mm x 464 mm x 392 mm		MiCard Attachment Kit-B1 Send PDF Security Feature Set-E1
Installation space (W x D x H)	682 mm x 1,083 mm x 895 mm		i-SENSYS X 1238i: CST.Feeding Module-AH1 (550-sheet cassette)
Weight	Approx. 16.2 Kg		Barcode Printing Kit-E1E
Operating environment	Temperature: 10 to 30°C (50 to 86°F) Humidity: 20 to 80% RH (no condensation)		MiCard Multi (Card reader for identification with RFID or magnetic cards with uniFLOW) Micard Plus (Card reader for identification with
Power Source	220-240V(±10%) 50/60Hz (±2Hz)		RFID or magnetic cards with uniFLOW) MiCard Attachment Kit-B1
Power Consumption	Maximum: Approx. 1,370 W Standby: Approx. 9.4 W Sleep mode: Approx. 0.9 W Typical Electricity Consumption (TEC): 0.33 kWh/ week <sup>11</sup> For detailed information relating to Lot26 regulation, please go to: http://www.canon-europe. com/For_Work/Lot26/index.aspx		Send PDF Security Feature Set-E1
Noise Levels	Sound Pressure <sup>®</sup> :		
	Active: 53 dB Standby: Inaudible <sup>9</sup>	Notes:	ot supplied, however PCL5e commands are supported on
		the device.	st supplied, nowever PCLSe commands are supported on
	Sound Power <sup>®</sup> : Active: 72.2 dB	[2] Accessory - Barcode Printir	ng Kit-E1E - is required
	Standby: Inaudible <sup>9</sup>	[3] Accessory - Send PDF Secu	rity Feature Set-E1 is required
		[4] Scan by MF Scan Utility or (	Canon PRINT Business app
CONSUMABLES		[5] Based on ITU-T Standard C	hart No. 1
Cartridges	TONER T08 (11,000 pages <sup>10</sup> )	[6] Web distribution only. Linu:	x support printing only.
			maximum number of printed pages for a single peak month. Inmended duty cycle may decrease the life of the product
		[8] Declared noise emission in	accordance with ISO 9296
			nission sound pressure level for a bystander is lower than ground noise in accordance with ISO 7779
		<sup>[10]</sup> Based on ISO/IEC 19752	
		[11] As per US ENERGY STAR*	version 3.0

#### **Software & Solutions**



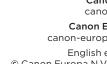
#### Compatibility







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# COMPACT AND CONNECTED COLOUR SINGLE-FUNCTION LASER PRINTERS DRIVING HIGH PRODUCTIVITY FOR SMALL OFFICES



# i-SENSYS LBP673Cdw

The Canon i-SENSYS LBP673Cdw Series is perfect for small offices looking to increase their productivity with streamlined print processes.



## Fast printing

Accelerate your business output with print speeds of up to 33ppm A4 colour and handling of smaller media types, including cheques and receipts

## **Cloud management**

Centralised print management from Microsoft Universal Print allows you to boost productivity

## Exceptional image quality

Achieve superior colour graphics, images and texts with laser-quality printing for professionallevel documents

## **Robust security**

Protect sensitive documents from falling into the wrong hands with Secure PIN print functionality and protect the device from malicious attacks with Verify System at Start Up



#### TECHNICAL SPECIFICATIONS

# i-SENSYS LBP673Cdw

PRINTER ENGINE		Noise level	Sound power <sup>2</sup>
Print speed	Single sided : Up to 33 ppm (A4)		Active: 65dB or less
	Up to 60 ppm(A5-Landscape)		Standby: 36dB or less
	Double sided : Up to 29.5 ipm (A4)		
Printing method	Colour laser beam printing		Sound pressure <sup>2</sup>
Print quality	Up to 1200 x 1200 dpi		Active: Simplex 51dB (CL)) / 50 dB (BW)
Warm-up time	Approx. 19.4 seconds or less from power on		Duplex 51dB (CL) / 50dB (BW)
First Page Out Time	Colour approx.: 7.1 seconds or less		Standby: 25 dB
	Mono approx.: 7.1 seconds or less	Dimensions (W x D x H)	425 mm x 427 mm x 300 mm
Recommended Monthly Print Volume	750 - 4,000 pages per month	Weight Operating environment	Approx. 17.1 kg Temperature: 10 to 30°C (50 to 86°F)
Duty cycle	Max. 50,000 pages per month <sup>1</sup>	Operating environment	
Print margins	5 mm-top, bottom, left and right	Control panel	Humidity 20 to 80% RH (no condensation) 5 Line LCD, 3 LED (Job, Error, Energy saver), Buttons, 10-key
Advanced printing features	Encrypted Secure Print	control panel	numeric keypad
· · · · · · · · · · · · · · · · · · ·	Secure Print		
	Print from USB memory key (JPEG/TIFF/PDF)	CONTROLLER	
	Microsoft Universal Print support	Processor Speed	1200MHz × 2
	iOS: AirPrint, Canon PRINT Business app	Memory	1GB
	Android; Mopria certified, Canon Print Service Plug-in, Canon	Printer Languages	UFRII, PCL5c3, PCL6, Adobe® PostScript3
	PRINT Business app	Fonts	45 PCL fonts, 136 PS fonts
		Interface and connectivity	USB 2.0 Hi-Speed, 10BASE-T/100BASE-TX/1000Base-T, Wireless 802.11b/g/n, Wireless Direct Connection
MEDIA HANDLING Paper input (Standard)	250-sheet cassette	Network Protocol	Print: TCP/IP (LPD/Port9100/IPP/IPPS/WSD)
Paper input (Standard)	50-sheet casette		
Paper input (Option)	550-sheet cassette		Management: SNMPv1, SNMPv3 (IPv4,IPv6)
Maximum paper input	850 sheets		
capacity			Security :
Paper output	150-sheet		TLS1.3, IPSec, IP/Mac address filtering, IEEE802.1X, SNMPv3,
Media types	Plain paper, Recycled paper, Heavy Paper, Thin paper, Colour paper, Coated paper, Pre-punched, Label, Post card, Envelope		SSL (HTTPS, IPPS)
Media sizes	Cassette (Standard):		Security (wireless): Infrastructure Mode:
	A4, A5, A5 (Landscape), A6, B5, Legal, Letter, Executive,		WEP(64/128 bit), WPA-PSK(TKIP/AES), WPA2-PSK(TKIP/
	Statement, OFFICIO, B-OFFICIO, M-OFFICIO, GLTR, GLGL, Foolscap, 16K, Post card, Envelop (COM10, DL, C5, Monarch),		AES), WAP2-EAP(AEP)
	Custom sizes: Min. 98 x 148 mm Max. 216.0 x 356.0 mm.		Access Point Mode:
	Martin and Annual Annual		WPA2-PSK(AES)
	Multi-purpose tray: A4, A5, A5 (Landscape), A6, B5, Legal, Letter, Executive,	Software and Printer	Remote User Interface (RUI),
	Statement, OFFICIO, B-OFFICIO, M-OFFICIO, GLTR, GLGL,	Management	Department ID Management,
	Foolscap, 16K, Post card, Indexcard, Envelope (COM10, DL, C5, Monarch), Custom sizes: Min 76 x 127 mm Max. 216.0 x 356.0		Toner Status Tool,
	mm.		iW Enterprise Management Console: Server-based software for centralised management of a fleet of devices
	Cassette (Optional):		eMaintenance: embedded RDS allows remote eMaintenance
	A4, A5, A5 (Landscape), A6, B5, Legal, Letter, Executive,		services such as meter capture, automatic consumables
	Statement, OFFICIO, B-OFFICIO, M-OFFICIO, GLTR, GLGL, Foolscap, 16K, Post card, Custom sizes: Min. 100 x 148 mm		management and remote diagnostics.
	Max. 216.0 x 356.0 mm.	Operating Systems Compatibility	Windows* 11 / Windows* 10 / Windows* 8.1 / Server* 2022 / Server* 2019 / Server* 2016 / Server* 2012R2 / Server* 2012
Media weights	Cassette (standard and optional): 60 to 163 g/m² (Up to 200		Mac OS X version 10.12 & up
	g/m <sup>2</sup> with Coated paper)		Linux <sup>4</sup>
	Multi-purpose tray: 60 to 176 g/m² (Up to 200 g/m² with Coated paper)		
Double sided printing	Automatic	CONSUMABLES	
	Cassette:	All-in-One cartridges	Cartridge 069 Black (2,100 pages 5)6
	A4, A5, A6, B5, Legal, Letter, Executive, Statement, OFFICIO,		Cartridge 069H Black (7,600 pages <sup>5</sup> ) <sup>6</sup>
	B-OFFICIO, M-OFFICIO, GLTR, GLGL, Foolscap, 16K Custom size - Min. 148 x 148 mm Max, 216.0 x 356.0 mm		Cartridge 069 Cyan (1,900 pages ⁵) <sup>6</sup>
			Cartridge 069H Cyan (5,500 pages <sup>5</sup> ) <sup>6</sup>
	60 to 200 g/m <sup>2</sup>		Cartridge 069 Magenta (1,900 pages <sup>5</sup> ) <sup>6</sup> Cartridge 069H Magenta (5,500 pages <sup>5</sup> ) <sup>6</sup>
GENERAL FEATURES			Cartridge 069 Hellow (1.900 pages 5)6
Power requirements	220-240V (±10%) 50/60Hz (±2Hz)		Cartridge 069 Yellow (1,900 pages 5)6 Cartridge 069H Yellow (5,500 pages 5)6
Power consumption	Maximum: Approx. 1,380W or less		Califidge 00311 Tellow (3,300 pages )
	Active printing: Approx. 700 W	ACCESSORIES/OPTIONS	
	Standby: Approx. 24.0W or less	Items	PAPER FEEDER PF-K1 (550-sheet cassette)
	Sleep: Approx. 1.0 W or less		·
	Typical Electricity Consumption (TEC): 0.31 kWh/week <sup>7</sup>	Notes:	
	For detailed information relating to Lot26 regulation, please go		aximum number of printed pages for a single peak month.
	to: http://www.canon-europe.com/For_Work/Lot26/index. aspx		lended duty cycle may decrease the life of the product
		<sup>[2]</sup> Declared noise emission in ac	cordance with ISO 7779.

<sup>(2)</sup> Declared noise emission in accordance with ISO 7779. Based on ISO9296, below figure is different. Active: 62dB or less

<sup>[3]</sup> Commands supported only. Third party driver or direct printing from application required.

[4] Web distribution only

- <sup>[5]</sup> Based on ISO/IEC 19798
- $^{\rm [6]}\,$  Printer ships with Black: 1.200 pages, C/M/Y: 1,100 pages starter cartridges
- [7] As per US ENERGY STAR\* version3.0



# COMPACT AND CONNECTED COLOUR SINGLE-FUNCTION LASER PRINTERS DRIVING HIGH PRODUCTIVITY FOR SMALL OFFICES

The Canon i-SENSYS LBP673Cdw Series is perfect for small offices looking to increase their productivity with streamlined print processes.



PRODUCT DETAILS:		
PRODUCT NAME	Mercury Code	EAN Code
-SENSYS LBP673Cdw	5456C007AA	4549292193299

ACCESSORIES:

PRODUCT NAME	Mercury Code	EAN Code
PAPER FEEDER PF-K1	5693C001AA	4549292077278

#### CONSUMABLES:

PRODUCT NAME	Mercury Code	EAN Code
Cartridge 069 Black	5094C002AA	4549292196771
Cartridge 069H Black	5098C002AA	4549292196924
Cartridge 069 Yellow	5091C002AA	4549292196689
Cartridge 069H Yellow	5095C002AA	4549292196801
Cartridge 069 Magenta	5092C002AA	4549292196719
Cartridge 069H Magenta	5096C002AA	4549292196856
Cartridge 069 Cyan	5093C002AA	4549292196740
Cartridge 069H Cyan	5097C002AA	4549292196887

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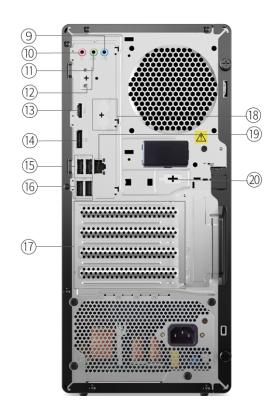
Canon Europe canon-europe.com

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# **OVERVIEW**





1. Power button	11. Line-out (3.5mm)
2. Card reader *	12. Flex IO *
3. Microphone (3.5mm)	13. HDMI 2.1 TMDS
4. Headphone / microphone combo jack (3.5mm)	14. DisplayPort 1.4
5. 1x USB-C 3.2 Gen 2	15. 2x USB 3.1 Gen 1
6. 2x USB 3.2 Gen 1	16. 2x USB 2.0 (one with smart power-on feature)
7. 2x USB 3.2 Gen 2	17. Expansion card *
8. Optical drive *	18. 2x PS/2 ports (keyboard / mouse) *
9. Line-in (3.5mm)	19. Ethernet (RJ-45)
10. Microphone (3.5mm)	20.Serial *

Notes:

- Items with \* are only available on selected models
- Onboard video ports are only available for the models with integrated graphics

## ThinkCentre neo 70t

# PERFORMANCE

#### **Processor**

#### **Processor Family**

12th Generation Intel® Core™ i3 / i5 / i7 / i9 Processor

#### Processor\*\*

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i3- 12100	4 (4 P-core + 0 E-core)	8	P-core 3.3GHz	P-core 4.3GHz	12MB	DDR5-4800	Intel UHD Graphics 730
Core i7- 12700KF	12 (8 P-core + 4 E-core)	20	P-core 3.6GHz / E- core 2.7GHz	P-core 4.9GHz / E- core 3.8GHz	25MB	DDR5-4800	-
Core i5- 12400F	6 (6 P-core + 0 E-core)	12	P-core 2.5GHz	P-core 4.4GHz	18MB	DDR5-4800	-
Core i7- 12700	12 (8 P-core + 4 E-core)	20	P-core 2.1GHz / E- core 1.6GHz	P-core 4.8GHz / E- core 3.6GHz	25MB	DDR5-4800	Intel UHD Graphics 770
Core i9- 12900	16 (8 P-core + 8 E-core)	24	P-core 2.4GHz / E- core 1.8GHz	P-core 5.0GHz / E- core 3.8GHz	30MB	DDR5-4800	Intel UHD Graphics 770
Core i5- 12400	6 (6 P-core + 0 E-core)	12	P-core 2.5GHz	P-core 4.4GHz	18MB	DDR5-4800	Intel UHD Graphics 730
Core i5- 12500	6 (6 P-core + 0 E-core)	12	P-core 3.0GHz	P-core 4.6GHz	18MB	DDR5-4800	Intel UHD Graphics 770
Core i9- 12900KF	16 (8 P-core + 8 E-core)	24	P-core 3.2GHz / E- core 2.4GHz	P-core 5.1GHz / E- core 3.9GHz	30MB	DDR5-4800	-

## **Operating System**

#### **Operating System**\*\*

- Windows® 11 Pro
- Windows 11 DG Windows 10 Pro 64
- No operating system

### Graphics

#### Graphics\*\*\*[1]

Graphics	Туре	Memory	Connector	Max Resolution	Key Features
NVIDIA® GeForce RTX™ 3060 Ti	Discrete	8G GDDR6	1x HDMI® 2.1, 3x DP 1.4	7680*4320@60Hz(HDMI), 7680x4320@120Hz(DP)	DirectX® 12
Intel UHD graphics 730	Integrated	Shared	1x HDMI 2.1 TMDS, 1x DP 1.4	4096x2160@60Hz(HDMI), 4096x2304@60Hz(DP)	DirectX 12
Intel UHD graphics 770	Integrated	Shared	1x HDMI 2.1 TMDS, 1x DP 1.4	4096x2304@60Hz(HDMI), 4096x2304@60Hz(DP)	DirectX 12
AMD Radeon™ RX 6500XT	Discrete	4GB GDDR6	1x HDMI 2.1, 1x DP 1.4	7680x4320@60Hz(HDMI), 7680x4320@60Hz(DP)	DirectX 12
NVIDIA GeForce RTX 3050	Discrete	8GB GDDR6	1x HDMI 2.1, 3x DP 1.4	7680x4320@60Hz(HDMI), 7680x4320@120Hz(DP)	DirectX 12

Notes:

1. The information of integrated graphics are not applicable for the models with processor which has no integrated graphics inside (for the details, please refer to processor section)

### **Monitor Support**

#### Monitor Support<sup>[1]</sup>

Supports up to 3 independent displays via onboard ports (HDMI, DisplayPort™, and 1x optional Flex IO), more displays support via discrete graphics

PSREF Product Specifications Reference

Notes:

1. Onboard video ports are only available for the models with integrated graphics

## Chipset

#### Chipset

Intel Q670 chipset

#### Memory

#### Max Memory<sup>[1]</sup>

Up to 128GB DDR5

#### Memory Slots

Four DDR5 UDIMM slots, dual-channel capable

#### Memory Type<sup>[2]</sup>

- DDR5-3600
- DDR5-4000
- DDR5-4400

#### **Memory Protection**

Non-ECC

- Notes:
- 1. The max memory is based on the test results with current Lenovo® memory offerings. The system may support more memory as the technology develops.
- 2 . System comes with DDR5-4800 memory and will run at lower speed due to platform limitations: 1x 8GB / 2x 8GB / 1x 16GB / 2x 16GB / 1x 32GB / 2x 32GB configurations run at DDR5-4400; 4x 8GB / 4x 16GB configurations run at DDR5-4000; 4x 32GB configuration runs at DDR5-3600.

#### Storage

#### Storage Support<sup>[1][2]</sup>

Up to four drives, 2x 3.5" HDD + 2x M.2 SSD

• 3.5" HDD up to 2TB each

• M.2 SSD up to 1TB each

#### Storage Type\*\*\*

Disk Type	Interface	RPM	Security
3.5" SATA HDD	SATA 6Gb/s	7.2K	-
M.2 2280 SSD	PCIe® NVMe®, PCIe 3.0 x4	-	Opal 2.0
M.2 2280 SSD	PCIe NVMe, PCIe 4.0 x4	-	Opal 2.0

#### RAID

RAID 0/1 support

Notes:

- 1. The storage capacity supported is based on the test results with current Lenovo storage offerings. The system may support larger storage as the technology develops.
- 2 . The max capacity of SSD/HDD is based on the test results with current Lenovo SSD/HDD offerings. The system may support more capacity as the technology develops.

### Removable Storage

#### **Optical**\*\*

- DVD-ROM, SATA 1.5Gb/s, slim (9.0mm)
- DVD burner (DVD±RW), SATA 1.5Gb/s, slim (9.0mm)

# None Card Reader

- 3-in-1 card reader (SD, SDHC, SDXC)
- No card reader

## Multi-Media

#### Audio Chip

High Definition (HD) Audio, Realtek® ALC623-CG codec

#### Speakers

- Single speaker, 2W x1
- No speakers

#### **Power Supply**

#### **Power Supply**

Power	Туре	Efficiency	Key Features
750W	Fixed	92%	100-240V, autosensing

# DESIGN

#### **Input Device**

#### Keyboard\*\*

- Euterpe Wireless Keyboard, grey
- Lenovo Calliope Keyboard (USB connector), black
- No keyboard

#### Mouse\*\*

- Lenovo Calliope Mouse (USB connector), black
- Lenovo Fingerprint Mouse (USB connector), black
- Euterpe Wireless Mouse, grey
- No mouse

#### Mechanical

#### Form Factor

Tower (17L)

#### Dimensions (WxDxH)<sup>[1]</sup>

376 x 170 x 297.85 mm (14.8x 6.7 x 11.73 inches)

#### Packaging Dimensions (WxDxH)

395 x 275 x 540 mm ( 21.4 x 10.8 x 15.6 inches)

#### Weight<sup>[2]</sup>

Around 7.5 kg (16.53 lbs)

#### **Packaging Weight**

Around 10.5 kg (23.15 lbs)

#### Case Color

Raven black

#### Bays

- 1x 3.5" disk bay (optional)
- 1x 3.5" disk bay
- 1x slim ODD bay

#### **Expansion Slots**

- One PCIe 3.0 x1
- One PCIe 4.0 x16 (x4 signal)
- One PCIe 4.0 x16, full-height, lenght<249mm
- Three M.2 slots (one for WLAN, two for SSD)

#### Cooling System (Fan & Cooler)\*\*

- (Optional) 1x front system fan, 1x rear system fan
- (Optional) 1x rear system fan
- (Optional) 1x front system fan

#### Notes:

Lenovo

- 1. The system dimensions may vary depending on configurations.
- 2. The system weight is approximate and based on results in Lenovo lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

# CONNECTIVITY

#### Network

#### **Onboard Ethernet**

Gigabit Ethernet, Intel Ethernet Connection I219-V, 1x RJ-45, supports Wake-on-LAN

#### **Optional Ethernet**

- Gigabit Ethernet, Bitland BN8E88, 1x RJ-45, supports Wake-on-LAN
- No optional Ethernet

#### WLAN + Bluetooth®\*\*[1]

- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Realtek Wi-Fi 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- AMD Wi-Fi 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- No WLAN and Bluetooth

#### Notes:

1. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

#### **Ports**<sup>III</sup>

#### Front Ports

- 2x USB 3.2 Gen 1
- 2x USB 3.2 Gen 2
- 1x USB-C<sup>®</sup> 3.2 Gen 2
- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

#### Optional Front Ports

1x card reader

#### Rear Ports<sup>[2]</sup>

- 1x HDMI 2.1 TMDS
- 1x DisplayPort 1.4
- 2x USB 2.0 (one with smart power-on feature)
- 2x USB 3.2 Gen 1
- 1x Ethernet (RJ-45)
- 1x line-in (3.5mm)
- 1x line-out (3.5mm)
- 1x microphone (3.5mm)

#### Optional Rear Ports\*\*\*

- 2x USB-C 3.2 Gen 2 (support data transfer, via 2-port USB-C expansion card, PCIe x4)
- 1x HDMI 2.1 TMDS (Flex IO)
- 1x VGA (Flex IO)
- 1x DP 1.4 (Flex IO)
- 1x USB-C 3.2 Gen 1 (Flex IO)
- 1x USB-C 3.2 Gen 2x2 (support data transfer, via USB-C expansion card, PCIe x4)
- 2x USB 3.2 Gen 1 (via 2-port USB expansion card, PCIe x1)
- 1x 1GbE RJ-45, via BN8E88
- 1x 1GbE RJ-45, via RGL8168H
- 1x 2.5GbE RJ-45, via RTL8125BGS
- 1x serial
- 4x serial (via 4-port serial expansion card, PCIe x1)
- 1x parallel
- 2x PS/2
- None

Lenovo

Notes:

- The transfer speed of following ports will vary and, depending on many factors, such as the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment, will be slower than theoretical speed. USB 2.0: 480 Mbit/s; USB 3.2 Gen 1 (SuperSpeed USB 5Gbps, formerly USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s; USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formerly USB 3.1 Gen 2): 10 Gbit/s; USB4\* 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s; USB4 40Gbps (USB 40Gbps): 40 Gbit/s; Thunderbolt™ 3/4: 40 Gbit/s
- 2. For video ports on discrete graphics, please see graphics section

## **Monitor Cable**

#### **Monitor Cable**

- HDMI to HDMI cable
- HDMI to VGA dongle
- DP to VGA dongle
- DP to DVI dongle
- DP to dual DP dongle
- DP to HDMI dongle
- Smart Cable (USB Type A-C)
- No monitor cable

# **SECURITY & PRIVACY**

#### Security

#### **Security Chip**

Discrete TPM 2.0, TCG certified

#### Physical Locks

(Optional) Smart Cable Clip

#### **Chassis Intrusion Switch**

- Chassis intrusion switch
- No chassis intrusion switch

#### Fingerprint Reader\*\*\*

- Touch style fingerprint reader integrated in power button
- Touch style fingerprint reader on mouse
- No fingerprint reader

#### **BIOS Security**

- Administrator password
- Secure Wipe
- Power-on password
- Hard disk password
- Cover presence switch
- Smart USB protection (allows keyboard / mouse only, blocks all storage devices)

# MANAGEABILITY

#### System Management

#### System Management<sup>[1]</sup>

- Intel vPro<sup>®</sup> Essentials
- Non-vPro

Notes:

1. Intel vPro offers a superset of DASH's defined capabilities.

# SERVICE

#### **Warranty**<sup>III</sup>

#### Base Warranty\*\*

- 1-year courier or carry-in service
- 1-year limited onsite service

#### Notes:

 The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to <u>https://smartfind.lenovo.com/</u>. To learn more details of warranty policy, please access <u>https://pcsupport.lenovo.com/warranty</u>.

## **ENVIRONMENTAL**

#### **Operating Environment**

#### Temperature

- Operating: 10°C (50°F) to 35°C (95°F)
- Storage: -40°C (-40°F) to 60°C (140°F)

#### Humidity

- Operating: 20% to 80%
- Storage: 20% to 90%

#### Altitude

- Operating: -15.2 m (-50 ft) to 3048 m (10,000 ft)
- Storage: -15.2 m (-50 ft) to 10668 m (35,000 ft)

# CERTIFICATIONS

#### **Green Certifications**<sup>III</sup>

#### **Green Certifications**

- EPEAT<sup>™</sup> Silver Registered<sup>[2]</sup>
- ENERGY STAR<sup>®</sup> 8.0
- ErP Lot 3
- RoHS / WEEE / REACH

#### Notes:

- 1. The items listed under the "Green Certifications" section may not only refer to certification but also registration or selfdeclaration.
- 2. EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

#### **Other Certifications**

#### Other Certifications

- (Optional) TÜV Rheinland<sup>®</sup> Low Noise
- (Optional) TÜV Rheinland Ultra Low Noise
- Feature with \*\* means that only one offering listed under the feature is configured on selected models.
- Feature with \*\*\* means that one or more offerings listed under the feature could be configured on selected models.
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# ThinkVision T27hv-30 63D6UAT3EU

#### PERFORMANCE

Display Size 27"

View Area 596.7x335.6 mm

Panel In-Plane Switching

Backlight WLED

Aspect Ratio 16:9

Resolution 2560x1440

Pixel Pitch 0.233x0.233 mm

**Dot / Pixel Per Inch** 109 dpi

View Angle (H / V) 178° / 178°

Response Time 4 ms (Extreme mode) / 6 ms (Normal mode)

Color Support 16.7 Million

Refresh Rate 75Hz

Brightness 300 nits

Contrast Ratio 1000:1

Color Gamut 99% sRGB

Anti-glare Yes

Curvature None

Camera 2592 x 1944, 5.0MP, IR+RGB camera

Microphone Integrated Microphone

Speakers 5Wx2

Power Consumption (Typical / Maximum) 30W / 168.5W

Power Adapter Integrated Touchscreen None Smart System

None

#### DESIGN

Stand Tilt, Swivel, Pivot, Height Adjust Stand

Case Color Raven Black

Side Bezel Width 2.1 mm

Dimensions with Stand (HxWxD) 584.6 x 613.8 x 204.7 mm / 23.02 x 24.17 x 8.06 inches

Weight (Including Stand) 7.9 kg / 17.4 lbs.

Mounting Supports VESA mount 100mm

ThinkCentre® M Series Support Tiny Support

#### CONNECTIVITY

USB Port 4x USB 3.2 Gen 1, 1x USB-C<sup>®</sup> 3.2 Gen 1 (DP 1.4 Alt Mode, USB upstream)

Video Connector 1x HDMI® 2.1, 1x DP 1.4, 1x DP Out, 1x USB-C 3.2 Gen 1 (DP 1.4 Alt Mode)

Network Connectivity 1x RJ45, Ethernet (10M/100M/1000M)

#### SERVICE

Base Warranty 3-year

CERTIFICATIONS

#### **Environmental Certification**

ENERGY STAR<sup>®</sup> Certified, TCO 9.0, TCO Edge 2.0, EPEAT<sup>™</sup> Gold, RoHS

#### **Ergonomic Certification**

Eyesafe® Display 2.0, TÜV Low Blue Light (Hardware solution), TÜV Rheinland® Flicker Free, TÜV Rheinland Eye Comfort

#### Sync Technology

None

Lenovo

PSREF Product Specifications Reference

#### Special Features

- Natural Low Blue Light
- Smart Sensor (Ambient Light Sensor, Human Detection Sensor)
- Lenovo® ThinkColour (Lenovo Display Control Center) Support

ThinkColour can only be used with Windows  $^{\circ}$  10 and Windows 11

Smart Power

The Smart Power function intelligently detects overall power consumption and dynamically manages the power delivery to each device

#### SOFTWARE

Operating System Support Windows 10, Windows 11

#### ACCESSORIES

Video Cables USB Type-C<sup>®</sup> to Type-C cable

#### MODEL

Announce Date : 2023-01-30 EAN / UPC / : 0196801781870 / 196801781870 / None JAN



 $\cdot$  Lenovo reserves the right to change specifications or other product information without notice.

 $\cdot$  Product image on this page is a sample, it may not match the real color of this model

# Premium Care - Advanced Support from Real People. Real Fast.

# 2

#### REAL PERSON

Choose how you want to reach us through the phone, chat or email - our expert technicians will take care of you.

# HASSLE FREE

'Getting started' and 'how-to' assistance for hardware and software. Easy solutions that are simple to reach - that's how Premium Care delivers you the ideal support experience.



## REAL FAST

Highly trained technicians will provide you real-time solutions, whatever the issue, on your first contact. If needed, our team will schedule an onsite visit for the next business day.

#### **PC HEALTH CHECK**



Free annual PC Health Check that allows our experts to spot issues before you do so they can resolve them quickly and help you avoid PC problems.

# Accidental Damage Protection - Protection of your PC from the unexpected.

Experience shows that a significant portion of devices may be damaged (and not covered under warranty) in the first three years. Lenovo's Accidental Damage Protection service covers accidents beyond the system warranty such as drops, spills, bumps and even electrical surges. Make sure your new device has maximum protection, avoid unplanned costs and get peace of mind.

# Base Warranty – Included with the systems you purchase, default 1- or 3-year coverage window.

# Warranty Extensions & Upgrades – Service and protection that's right for your circumstances.

• Pick Up & Return Courier

Technician Installed Customer

Onsite Support

- Replaceable Unit Service
- International Warranty Upgrade

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# **Recommended Accessories**



# Kensington MicroSaver 2.0 Cable Lock from Lenovo

4XE0N8091

Protect your device. Lenovo offers the latest standard in device security - the MicroSaver 2.0 Cable Lock From Lenovo. Engineered to be the smallest, strongest lock for laptops and other devices, the MicroSaver 2.0 re...



**ThinkCentre Tiny In One Dual Monitor Stand** 4XF0L72016 ThinkCentre Tiny-In-One Dual Monitor Stand

For a full list of accessories and services, please visit: https://smartfind.Lenovo.com

