



TECHNICAL GUIDE

VIDEO SYSTEM CENTER
VIDEO SYSTEM CENTER Type A

CV-170

Chapter 6 : Adjustment	6-1
1 Adjustment list after part replacement	6-2
2 Adjustment tasks	6-3
2-1 LED output value setting	6-3
2-2 Life meter reset	6-11
2-3 Shipping region setting	6-16
2-4 Language setting	6-26
2-5 Main unit serial number setting	6-29
2-6 Clock setting	6-36
Chapter 7 : Inspection	7-1
1 Jigs, Tools, and Measuring Equipment	7-2
2 Inspection with TOP COVER open	7-4
2-1 Poor-lighting detection on examination lamps	7-4
3 Inspection with the TOP COVER closed	7-6
3-1 Electrical safety test	7-6
3-2 Activation / Initial setting	7-9
3-3 Examination lamp / White balance adjustment	7-14
3-4 Normal observation image	7-15
3-5 NBI observation image	7-16
3-6 Scope SW operation	7-17
3-7 Scope ID function	7-17
3-8 Structure enhancement A and B / Edge enhancement function	7-17
3-9 AGC function	7-18
3-10 Auto iris control properties, automatic brightness control, and brightness adjustment	7-18
3-11 Color tone and chrome variableness	7-19
3-12 Switching the size of an endoscopic image	7-19
3-13 Zoom function	7-19
3-14 Noise reduction switching	7-20
3-15 Freeze function	7-20
3-16 Foot switch operation	7-20
3-17 Frozen images record	7-21
3-18 Color bar and switching 50% white	7-22
3-19 Airflow pressure	7-22
3-20 100BASE-TX terminal operation	7-23
3-21 Backup function	7-30
3-22 System reset	7-31
3-23 Light intensity	7-32
3-24 Exterior	7-41
4 Inspection Card	7-42
Chapter 8 : Service Mode	8-1
1 Maintenance	8-2
1-1 Maintenance Schedule	8-2
2 Service Mode	8-3
2-1 Service mode operations	8-3
2-2 Service mode menu	8-4
3 Log output	8-28
3-1 Preparing log output	8-28
3-2 Log output procedure	8-28
4 Save / Load Setting Data	8-31
4-1 Preparing for backing up / Loading setting data	8-31
4-2 Backing up setting data	8-31

3-18 Color bar and switching 50% white

- Standard
 - Color bar image can be displayed on the monitor
 - There is no noise on color bar images
 - It can show 50% white images on the monitor
 - There is no noise on 50% white images
- Inspection procedure
 1. Turn off CV-170, and remove the video scope (ENF-VH).
 2. Turn ON CV-170.
 3. A color bar will be displayed on the monitor screen. Check visually that there is no noise on it.
 4. Press "MENU" key on the keyboard, select "[+] Advanced MENU" and press "Enter" key.
 5. Select "[+] Monitor check screen" and press "Enter" key.
 6. Select "50% white" and press "Enter" key.
 7. It will show 50% white on the monitor screen. Check visually that there is no noise on it.
 8. Press "MENU" key on the keyboard to return to color bar display.

3-19 Airflow pressure

*This inspection is not need for the SP model.

- Standard
 - Pressing airflow button will not cause any airflow when the scope is not connected
 - Rock pressure when the airflow regulator is configured as "HIGH": No greater than 53.9kPa
 - When the airflow regulator is configured as "HIGH" and the airflow is 26.5kPa-27.5kPa: Equal to or greater than 1L/min
 - When the airflow regulator is configured as "LOW" and the airflow is 21.6kPa-22.6kPa: Greater than 0.68L/min
 - There is no backward flow on flow amount
 - There is no abnormal noise from the CV-170
- Inspection procedure
 1. Press airflow button on CV-170 and check the no airflow.
 2. Insert the air checker in the CLV-170 output connector.
 - Air checker (NJ2304)
 3. Press airflow button on CV-170 and configured the airflow "HIGH".
 4. Turn clockwise the flow-adjusting bulb of airflow inspection tool, and shut the flow-adjusting bulb.
 5. Check to see that the rock pressure is 53.9 kPa or less.
 6. Turn counterclockwise the flow-adjusting bulb of airflow inspection tool, configure the airflow pressure to "26.5 - 27.5 kPa" and check to see that the flow is 1.0 L/min or more.
 7. Press airflow button on CV-170 and configure the airflow "LOW".
 8. Turn counterclockwise the flow-adjusting bulb of airflow inspection tool, configure the airflow pressure to "21.6 - 22.6 kPa" and check to see that the flow is 0.68 L/min or more.
 9. Check that the airflow becomes weaker by the order of airflow setting "HIGH" to "LOW"
 10. Press airflow button on CV-170 and stop the airflow.
 11. Remove the airflow inspection tool from the output connector on CV-170.