# User's Manual

## SUN-EC Series

**Integrated Fiber End-face Inspector**

**English**

Table: SUN-UM-TL-EC001      Version: A/0

# 1    SUN-EC Button Introduction

## 1.1  SUN-EC Front View



1: Esoteric Focusing System          5: ▲ Page Up

2: Power Indicator                          6: ▼ Page Down

3: LCD Display                               7: Image Capture Button

4:Menu Button

## 1.2  SUN-EC Right View



| | |
|---|---|
| 8: Adapter Tip | Used for connector fixation, employ corresponding tip for various optical fiber connector inspections. |
| 9: Dust Cap | Prevent esoteric adjusting system from inhalation of dust, make sure the adjusting damping remain unchanged. |
| 10: Focus Ring | For connector focus. |

## 1.3  SUN-EC Left View

11: SD Card Slot

## 1.4  SUN-EC Rear View

| | |
|---|---|
| 12: Power | ON/OFF |
| 13: DC 12V | DC 12V power input |
| 14: Image Output Tip | Can be connected with other display devices to present internal video signal |
| 15: Image Display Switch | For switch between internal video signal and external video signal |
| 16: AV IN | External video signal input port, |
| 17:GND | Connect the ground |

## 2  Operation Procedures

### 2.1  SUN-EC Installation

1. Open box and take out the machine, choose and install the corresponding adapter tip into device (the tip should be fastened). Assemble the power adapter and power line and make sure the power supply is well connected.

### 2.2  Machine adjustment

Power on and insert the optical fiber connector into the SUN-EC200/400 adaptor tip. Adjusting the focus ring clockwise, the connector moves away from inspector body; adjusting the focus ring anticlockwise, the connector moves towards the inspector body. To observe the fiber end face, adjusting the focus ring till image gets clear and bright. Make sure the image display switch is turned to the right in this mode.

### 2.3  Tip assembly

SUN-EC200/400 provide different adaptor tips to fulfill various connector inspection needs. Screw anticlockwise to remove the adaptor tip. Select the needed tip, match the threads of tips and screw in clockwise tightly. See diagram below:



Sometimes adjustment is required to optimize the inspection result depending on different situations. The four buttons, MENU, ▲, ▼, CAP will be introduced in the following:

## 2.4 Brightness and contrast adjustment

Press MENU to enter the brightness and contrast adjustment interface, as shown below:



BRIGHTNESS    39
CONTRAST      30
EXIT
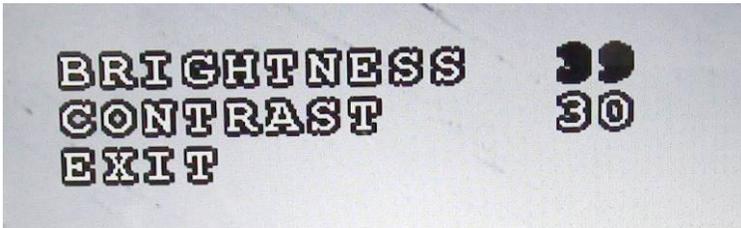
In this adjustment interface: MENU: Page Down key, can choose downward from BRIGHTNESS, CONTRAST to EXIT, selected one is shown in black; CAP: Page Up key, can choose upward from EXIT, CONTRAST, BRIGHTNESS, selected one is shown in black; ▲: Up key, can raise the value of BRIGHTNESS and CONTRAST; selecting EXIT means save and exit the interface; ▼: Down key, can reduce the value of BRIGHTNESS and CONTRAST; selecting EXIT means save and exit the interface Adjust the BRIGHTNESS and CONTRAST according to specific requirements. When the BRTIGHTNESS and CONTRAST is set at the optimum value, press MENU to select the EXIT column, then press ▲ or ▼ to save settings and start inspection.

## 2.5  Image capture

CAP is the image capture key, pressing CAP can capture and save the current image to the SD card. Note: the screenshot can only be activated with the SD card inserted. Power must be switched off before insert and remove the SD card.

## 2.6  Inspections

After adjustment, connect the product to be tested onto the adaptor tip, adjust the focus ring to get the clear image, and then start inspection. If filing is required, press CAP during inspection and the image captured will be kept on file in SD card. Power off the inspector, pull out SD card and reinsert into PC, images can be removed to PC easily. To replace adaptor tip, unscrew anticlockwise to remove the existing one and then screw in tightly the needed tip clockwise. The powerful device can perform various connector inspections.
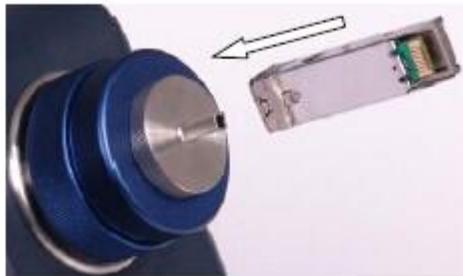
## 2.7  Picture view

Press ▲ to enter the picture view mode. Images stored in SD card can be viewed in this mode. Press MENU to exit. CAP: delete, press for the first time, DEL? Prompts; press again to delete the current image; ▲: page up key, view the previous image ▼: page down key, view the next image

### 3  Maintenance

1. Please keep the device clean, away from grease and dust.
2. It would be better kept in the instrument container if the inspector will not be used for a long time.

### 4  Notice

1. Instruments must be moved gently.

2. No extrusion.

3. Power must be switched off when taking out SD card.

4. Use the Dimension Technology customized 12V DC power adapter. Other power adapters are not allowed.

5. Do NOT disassemble instrument so as to avoid unnecessary loss.

6. Keep instrument away from sharps so as to avoid scratches on the screen.

### 5  Standard Accessories

| No. | Product | Unit | Quantity |
|-----|---------|------|----------|
| 1 | Fiber End-face Inspector | set | 1 |
| 2 | 2.5mm UPC Universal Male Adaptor | piece | 1 |
| 3 | 1.25mm UPC Universal Male Adaptor | piece | 1 |
| 4 | 8G SD Memory Card | piece | 1 |
| 5 | Power Adapter | piece | 1 |

**SHANGHAI SUN TELECOMMUNICATION CO., LTD.**
Building No.145 Lane 666, Xianing Rd.
Jinshan Industrial Zone, Jinshan District
ShangHai, China 201506
Tel: +86 21 60138638    Fax: +86 21 60138635-401
E-mail: ics@suntelecom.cn
http://www.suntelecom.cn