7" Rear View system
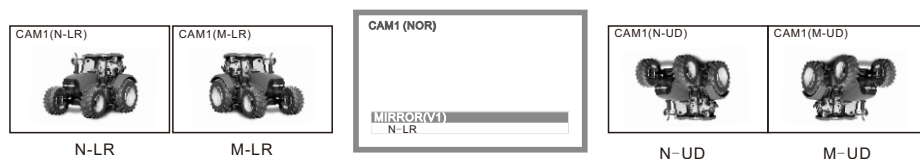# User Manual

Sparex
Your 1ˢᵗ choice

Specifications and manual content are subject to change without any notice.

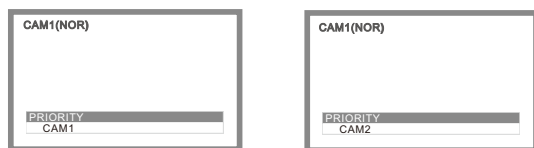Before using the products, please read the manual and preserve it well.

CE FC

Reaper | Backhoe | Tractor | Road Roller | Mining | Fork-lifts | Mixer Truck | Truck

Features

★Patant on the monitor design, monitor housing is made by ABS which has ability
  of high temperature resistant.
★7″ High Resolution Color TFT-LCD. LED backlight.
★11V-32V DC power input, suitable for all kinds of vehicles.
★Monitor brightness 400cd, (Can adjust screen brightness automatically according to
  ambient brightness.
★Monitor circuit has protector for battery reverse(+/-).
★LED backlight display with constant voltage constant current circuit protection design.
  (Solve LED work temperature reaches the limit of its current damage and prolong
  service life)
★Display with ESD protection circuit design (To prevent electrostatic damage to the
  external environment);
★Monitor OSD menu can set each camera image in 4 mode NOR/MIR/UP/DOWN; the
  priority for each channel (Each channel with a trigger can connect with reversing/right/
  left trig); time delay setting 0~30s.
★Various language menu optional, suitable for various countries;
★Support one or two AV input(depends on the different model).
★High shock resistant rating: 8G.
★Car camera waterproof: IP69K.
★Camera design to prevent the camera oxidation and atomization.
★Camera automatically heating and defrost function optional.

Notice:

★Before using our products, please read this manual first.
★DC11~32V input, the power cable(red and black) connect with the car battery (power and ground)
★The trigger(blue and white cable) connect with the trig power(like the exit door, reversing power)
★The monitor connect the camera through the extension cable.
★Please make sure all the cables are connected tightly, or else the system will not work well.
★The monitor is not waterproof, please don not place the monitor outdoor.
★Do not open the housing of the camera, otherwise the waterproof device and chipset
  inside it will be damaged.
★While driving, please do not watch DVD, etc.
★Please do not use caustic chemicals to wipe the camera and monitor.

⚠ Warning

The system maintenance must be maintained by professionals, please do not open and
improve the system!
The system only for the safe operation of machine and equipment, not responsible for
accidents!
This manual is for reference only. if unknown, or any changes, we will give no notice.
The final interpretation right belongs to the manufacturer.

SYSTEM CONNECTION

VI. System connection diagram

VII. Fitting

Support

Extension cord

5. Reverse Mode

| CAM1(N-LR) | CAM1(M-LR) | CAM1 (NOR) | CAM1(N-UD) | CAM1(M-UD) |

MIRROR(V1)
N-LR

N-LR   M-LR   N-UD   M-UD

The default image for each channel is N-LR, it can be adjusted to 4 mode separately: N-LR, M-LR, N-UD, M-UD.

6. Channel priority

| CAM1(NOR) | CAM1(NOR) |

PRIORITY
CAM1

PRIORITY
CAM2

CH PRIORITY : Set CAM1/CAM2 display priority.

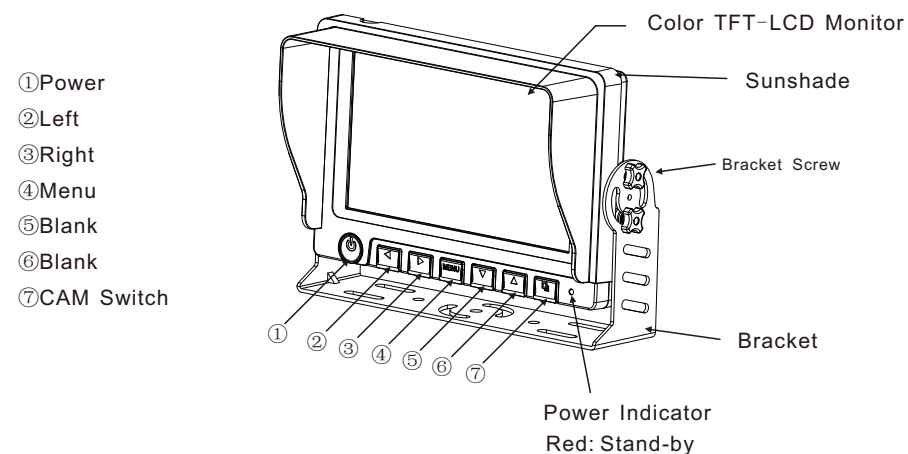The monitor will show the priority CH when trigger the 2 CH at the same time.

Note: In reversing mode, all the keys and remote control are not work.

Notice:

1. If no video signal, the monitor will stand by after 10 minutes.

2. Character disappear: The character on the screen will keep 5s before disappear. It will keep the current CH.

3. All the button are useless when the system been trigger by the reverse signal.

4. Exit the Menu will save the current setting.

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I. Appearance and accessories

①Power
②Left
③Right
④Menu
⑤Blank
⑥Blank
⑦CAM Switch

Color TFT-LCD Monitor

Sunshade

Bracket Screw

Bracket

Power Indicator
Red: Stand-by

① ② ③ ④ ⑤ ⑥ ⑦

II. Monitor / Camera Dimensions Figure

●DF-4103(1/3"SHARP CCD 600TVL)

218   82   207

149   60

●DF-4103(1/3"SHARP CCD 600TVL)

77.2   66.0   75.7

R19 R25 R3.5   15.8   32   Ø21
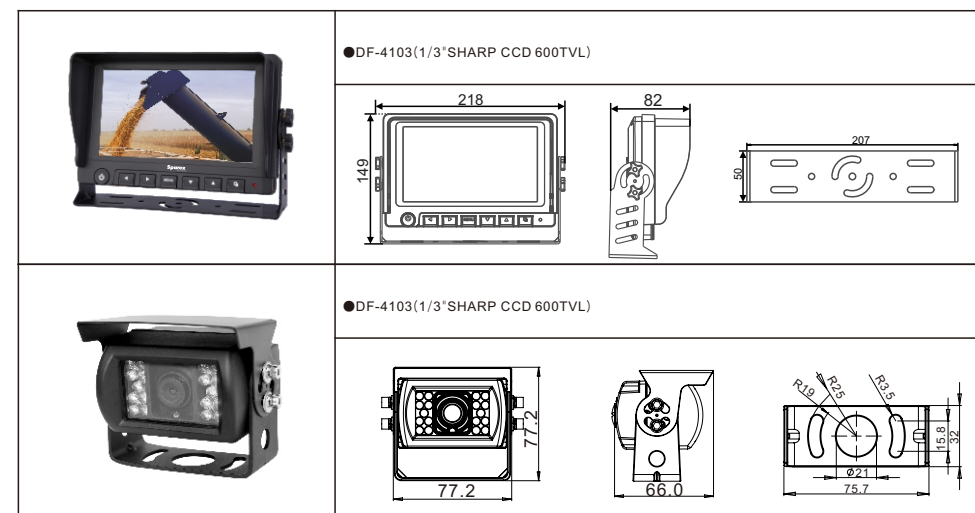
III. System parameters

Display Device	Color TFT-LCD
Size	7" Wide Screen(LED Backlit)
Resolution	800 × (RGB) × 480
Active Area (mm)	153.60 × 86.64
Viewing Angle (LR/UD)	140 / 110
Contrast Ratio	500:1
Brightness	450 cd/㎡
Response Time (ms)	25
Operating Temperatuer	-20℃ ~ +70℃
Storage Temperature	-30℃ ~ +80℃
Power Supply	DC11-32V
Power consumption	5W Max（Without load）
Appearance Size	L:218mm×H:mm×W:82mm
Camera	Waterproof Camera
Image Sensor	1/3 SHARP CCD
Horizontal Resolution:PAL	752(H)x582(V)
Horizontal Resolution: NTSC	768(H)x494(V)
Resolution	600TVL
Minimum illumination	0lux/IR open
Lens	2.9mm
Operating Voltage	DC12V
Gain Control	Automatic
S/N Ratio	More than 48db
White Balance	Automatic
Electronic Shutter Image	Automatic
Video Output	1.0Vp-p 75Ω
Operating temperature	-20℃ ~ +60℃
Storage temperature	-30℃ ~ +80℃

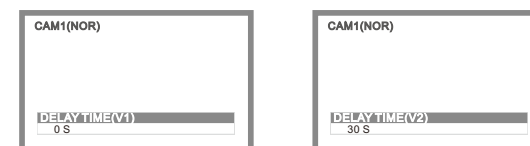## IV. Menu Operation

1. Picture

Press MENU to Brightness/Contrast/Color
Press left/right to adjust the value.
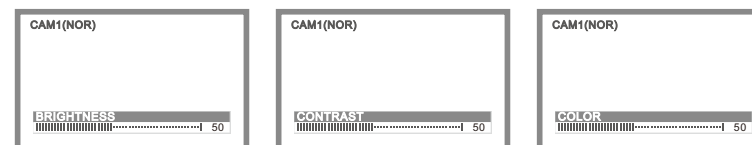
The default value is 50, and can be adjusted between 0-100.
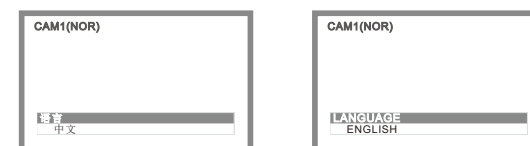
2. Delay Time(V1)/(V2)

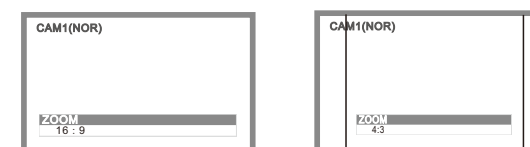Press MENU to delay time, press left/right to adjust.

Delay Time setting: Set the delay time when the trigger stopped on CAM1 and CAM2. It can be 0~30s.

3. Language

Various language for choose： Chinese/English/French/German/Italian/Spanish/Portuguese/Russian/Dansk/Polski/Nederlands.

4. ZOOM(Display Mode)

Two Display mode 16:9 and 4:3