DEFENDER™
SECURITY

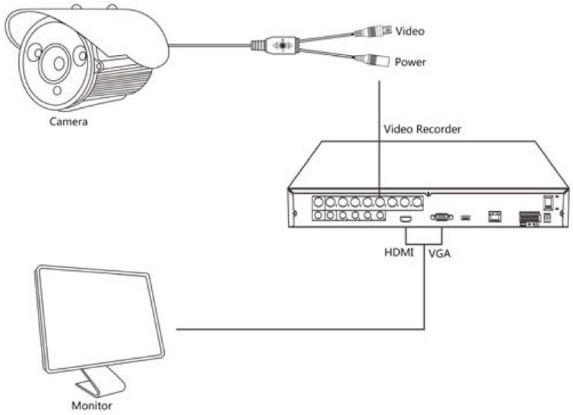
DFR32/33 and DFR34/35
HD BULLET SECURITY CAMERAS

INSTALLATION GUIDE

SAFETY INSTRUCTIONS

- Before using the camera, please read this manual carefully and keep it for future use.
- Installation should be completed by a qualified installer or experienced person with good knowledge of network installation.
- Do not expose the lens to intense light source for long periods.
- Do not touch the sensor directly.
- Ensure the power supply used to operate the camera is of the correct specification.
- Operating temperature range is -10°C to +60°C.
- Do not mount the camera directly above a heat source.
- Do not install the camera below an air curtain or air conditioning unit or the lens may be affected by condensation.
- There are no serviceable parts inside - do not disassemble.
- It is advisable to install lightning protection if the camera or any wiring is to be installed in a vulnerable position.

INSTALLATION



FEATURES

Auto Gain Control (AGC)

- Built-in auto gain control (AGC) circuit. The colour camera can produce high quality pictures in low light condition.

Auto Electronic Shutter (AES)

- Built-in auto electronic shutter function. The colour camera's AES speed is up to 1/100,000s.

Gamma Characteristic

- Camera Gamma characteristic is 0.45.

Scanning Mode

- NTSC or PAL mode.

TROUBLESHOOTING

No picture after connecting to the recorder and power supply.

- Check the power supply is suitable and connected correctly and that the network cable is correct and installed properly.

The picture has flowing interference ripples or generally poor.

- May be caused by fluctuations in the AC mains power supply. Check the monitor and peripheral equipment used to determine if the problem is with the camera feed or another component in the network.
- Ensure the power supply is stable and of sufficient power and all connections are clean with low impedance.

The picture colour changes continuously

- Installation close to fluorescent lighting can cause this. Try to keep a reasonable distance from the fluorescent fitting.
- Interference from an electromagnetic source close to the camera or the supply wiring.

MAINTENANCE

- Use a soft cloth to wipe off any dust. If the camera is very dirty, use a damp cloth with a mild detergent and wipe dry.
- Do not use any chemicals, abrasives or solvents that could damage the camera.
- Clean the lens and sensor with a soft dry cloth.

SPECIFICATION

	DFR32-DFR33	DFR34-DFR35
Image Sensor	1/3” CMOS 2MP Sensor	1/2.5” CMOS 5MP Sensor
Resolution	2M:1920*1080	5M:2592*1944
Output	PAL/NTSC	PAL/NTSC
Day/Night	Yes	Yes
S/N ratio	>45dB DNR	>45dB DNR
OSD Menu	Yes	Yes
IR Range	40 meters	40 meters
IR power	AGC Auto Control	AGC Auto Control
Video output	AHD/CVI/TVI/CVBS 4 IN 1	AHD/CVI/TVI/CVBS 4 IN 1
Power	12V DC 750mA (Min)	12V DC 750mA (Min)
Lens	2.8-12mm Manual Zoom Varifocal Lens	2.8-12mm Manual Zoom Varifocal Lens
IP Rating	IP67	IP67
Dimensions	220(W) x 80(H) x 80(D)mm	220(W) x 80(H) x 80(D)
Weight	1.4kg	1.4kg
Operating Temp	-10°C~+60°C 95% humidity (Max)	-10°C~+60°C 95% humidity (Max)

INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT.

When this product has reached the end of its life it must be treated as Waste Electrical & Electronic Equipment (WEEE). Any WEEE marked products must not be mixed with general household waste, but kept separate for the treatment, recovery and recycling of the materials used. Contact your local authority for details of recycling schemes in your area.

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