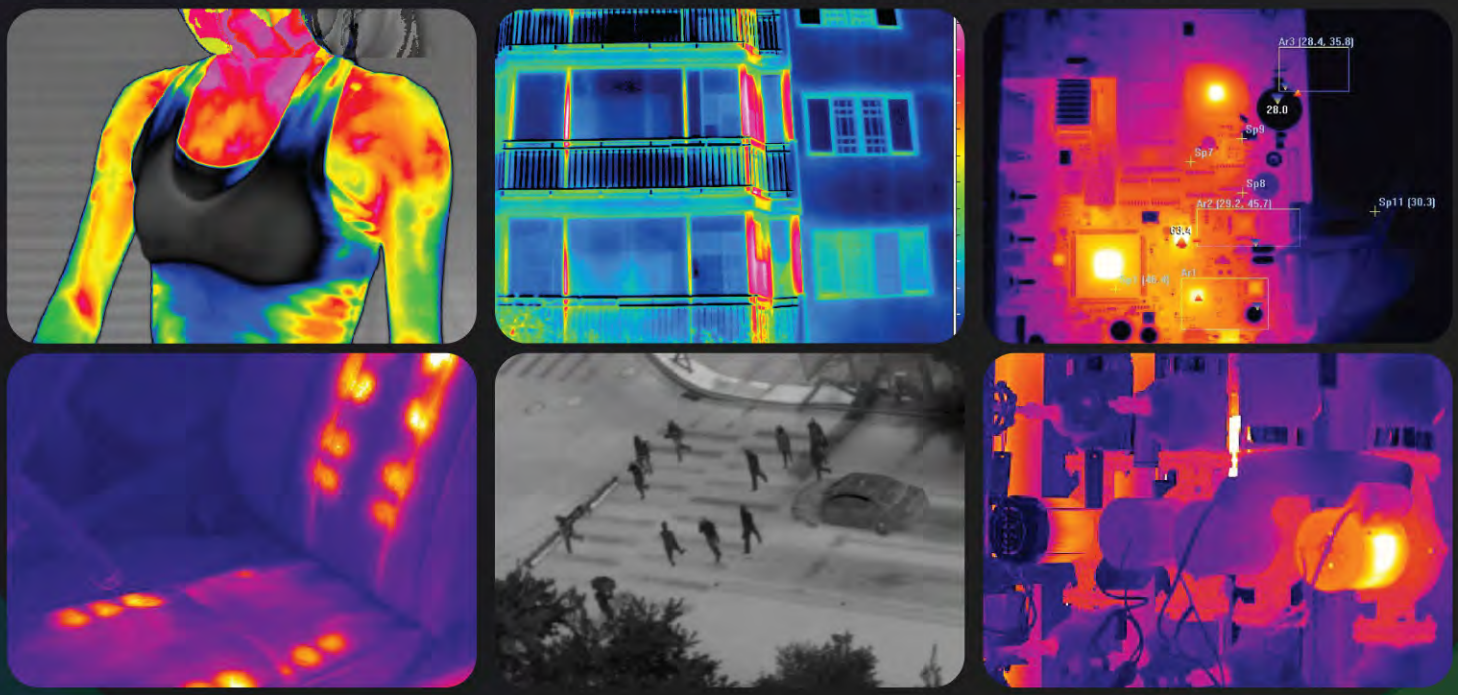
Thermal Imaging Camera

Do not believe your eyes, Do believe your CX series.



See what you
can`t see.. !!!

Key Feature

- Output Temp. RAW DATA and analog. image simultaneously!
- Crisp and clear image :
  384 x 288, 25μm
  640 x 480, 17μm
- Easy to configure and operate
- Easy to install
- Remote camera control via RS-485, Ethernet
- Electronic zoom x2, x4
- Small size and weight

Applications

- Border control
- Commercial Surveillance
- Perimeter security
- Firefighting
- Law enforcement
- Night vision
- Maritime, Airborne
- Research & Development
- Building Diagnostics
- Furnace & Boiler Inspection

FC KC CE

*Specifications and Design are subject to change without notice.

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Technical Specifications

SELECTION GUIDE

	Resolution	Pitch	Measurement	HDMI Video	Raw data/Ethernet control	Temperature data
CX300	384x288	25um	NO	YES	NO	NO
CX320			YES	NO	YES	YES
CX600	640x480	17um	NO	YES	NO	NO
CX640			YES	YES	YES	YES

SPECIFICATION

Detector type	Focal Plane Array(FPA) Uncooled microbolometer	F-number	F=1.0
		Frame rate	50Hz(PAL) / 60Hz(NTSC)
Response Time	<10ms	Digital zoom function	2x, 4x
Detector spectrum length	8~14μm	Working temperature range	-15°C to 50°C(5°F to 122°F)
Focusing range	∞~0.3m(0.98ft)	Storage temperature range	-40°C to 70°C(-40°F to 158°F)
Thermal sensitivity(NETD)	<80mK @ f/1, 60Hz, 300K	Object temperature range	-20°C to 650°C(-4°F to 1202°F)
Standard lens	20mm	Housing	Indoor

MEASUREMENT

Temperature Normal range	-20°C to120°C (-4°F to 248°F)
Temperature High range	-20°C to 650°C (-4°F to1,202°F)
Accuracy	± 2°C or 2%
Spot	O(camera), O(PC software)
Area	X(camera), O(PC software)
Isotherm	O(camera), O(PC software)
Atmospheric transmissivity correction	O(camera), O(PC software)
Emissivity correction	O(camera), O(PC software)

FEATURE

Composite video	NTSC/PAL compatible
Alarm output	2 ports Relay(max 250VDC, max 200mA) user setting event triggered
Camera control	Ethernet(Free PC soft) RS485(PELCO D protocol)
Digital video	Ethernet, HDMI
Image setting	Automatic Gain Control(AGC) Image Enhancement NUC (Manual, Interval) Menu OSD

ETHERNET

Ethernet	10/100 base
Ethernet protocol	TCP, DHCP
Ethernet Raw Streaming	COX proprietary Temperature

LENS

Standard	20mm(F=1.0)
Available	50mm, 75mm, 100mm(F=1.0)

PACKAGE CONTENT

Power supply 110-220V AC (DC 12V)
Power cable
Ethernet cable
Manuals (English)
RCA cable
Software — ThermalCam Monitor, ThermalReport, ThermalCamUserControl

VIEW ANGLE

	20mm		50mm		75mm		100mm	
	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
384*288 (PAL)	26°	20°	11°	8°	7°	5°	5°	4°
320*240 (NTSC)	22°	17°	9°	7°	6°	5°	5°	3°
640*480	29°	22°	12°	9°	8°	6°	6°	5°

CX320 (with 20mm lens)
MAN — Detection : 404m 1,325ft; Recognition : 96m 315ft
OBJECT — Detection :1,161m 3,809ft; Recognition : 310m 1,017ft

CX640 (with 20mm lens)
MAN — Detection : 808m 2,651ft; Recognition : 192m 630ft
OBJECT — Detection : 2,322m 7618ft; Recognition : 619m 2,031ft

CX320-50 (with 50mm lens)
MAN — Detection : 1,002m 3,287ft; Recognition : 239m 784ft
OBJECT — Detection : 2,881m 9,452ft; Recognition : 768m 2,520ft

CX640-50 (with 50mm lens)
MAN — Detection : 2,004m 6,575ft; Recognition : 477m 1,565ft
OBJECT — Detection : 5,761m 18,901 ft; Recognition : 1,536m 5,039ft

CX320-75 (with 75mm lens)
MAN — Detection : 1,499m 4,918ft; Recognition : 357m 1,171ft
OBJECT — Detection : 4,309m 14,137ft; Recognition : 1,149m 3,770ft

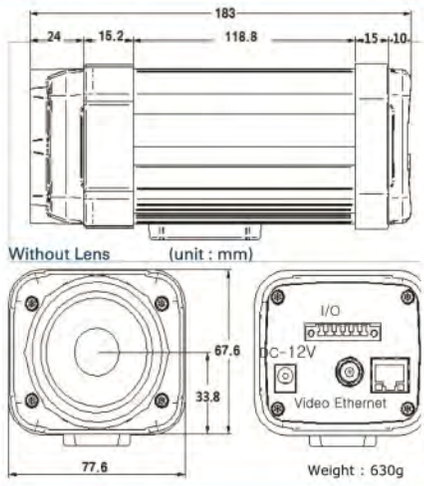
CX640-75 (with 75mm lens)
MAN — Detection : 2,998m 9,836ft; Recognition : 714m 2,342ft
OBJECT — Detection : 8,618m 28,274ft; Recognition : 2,298m 7,539ft

CX320-100 (with 100mm lens)
MAN — Detection : 2,409m 7,903ft; Recognition : 575m 1,886ft
OBJECT — Detection : 6,926m 22,723ft; Recognition : 1,847m 6,059ft

CX640-100 (with 100mm lens)
MAN — Detection : 4,015m 13,172ft; Recognition : 959m 3,146ft
OBJECT — Detection : 11,543m 37,871ft; Recognition : 3,078m 10,098ft

* Actual range may vary depending on camera set up, environmental conditions, user experience and type of monitor of display used.

DIMENSIONS



Weight : 630g

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