

MIC-T Digital Camera

1.4Mega pixels CCD Camera feature:
 Scientific-grade CCD chip
 1.4Mega pixels resolution (1360X1024)
 8 bit color RGB
 progress scan, 15fps



TCC-1.4CL	
1.4Mega pixels CCD camera	
CCD chip manufacturer	Sony
CCD chip model	ICX205AK
CCD scan mode	Progress scan
CCD size	1/2 inch
Pixels	4.6micron x 4.6micron
G sensitive	400 mV
Resolution	1360H x 1024V
Filter	R, G, B buyer
Lens interface	Standard C-mount
Maximum fps	15 fps (1360 x 1024) 30fps (640 x 480)
Low-speed readout	ok
A/D conversion	8 bit
Exposure control	automatic、 manual
Exposure time	1ms-60minute
Angle light control	Yes
White balance	automatic、 manual
Parameter	image size、 bright、 gain、 exposure、 RGB
Data interface	USB2.0/480Mb/s
USB cable	2.5meter
USB power supply	USB2.0
Dimension	100mm*81mm*48mm (HXBXT)
Weight	480g
Operational temperature	0-60°C
Operational humidity	45%-85%
Storage temperature	-20-70°C

Each camera include:

TCC-1.4CL digital camera (standard C-mount、 2.5 meter USB cable)	1
Driver、 software CD	1
Manual	1
Certification	1
Aluminum carton	1



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MIC-T Digital Camera

6.1Mega pixels CCD Camera feature:

1.8" Scientific-grade CCD chip

6.1Mega pixels resolution (3020X2016)

8/12 bit color RGB

7.8um X 7.8um pixel size



TCC-6.1	
6.1Mega pixels CCD camera	
CCD chip manufacturer	Sony
CCD chip model	ICX413AQ
CCD scan mode	Interline
CCD size	1.8 inch
Pixels	7.8micron x 7.8micron
G sensitive	1200 mV
Resolution	3020H x 2016V
Filter	R, G, B bayer
Lens interface	Standard C-mount
Maximum fps	2.9 fps (3020 x 2016) 10fps (720 x 480) ROI
Low-speed readout	ok
A/D conversion	8/12 bit
Exposure control	automatic、manual
Exposure time	1ms-60minute
Angle light control	Yes
White balance	automatic、manual
Parameter	image size、bright、gain、exposure、RGB
Data interface	USB2.0/480Mb/s
USB cable	2.5meter
USB power supply	USB2.0
Dimension	100mm*81mm*48mm (HXBXT)
Weight	480g
Operational temperature	0-60°C
Operational humidity	45%-85%
Storage temperature	-20-70°C

Each camera include:

TCC-6.1 digital camera (standard C-mount、2.5 meter USB cable)	1
Driver、software CD	1
Manual	1



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MIC-T Digital Camera

Certification	1
Aluminum carton	1

Scientific grade CCD sensor chip ICX413AQ

1.8 inch CCD size

Available in 6.1MP Resolution

Peltier cooled to -30°C below ambient

Noise reduction electronics

Gain functionality in hardware

Data output: 12-bit or 8-bit raw,jpg,bmp

Exposure time: 1ms to over 1 hour

Robust CNC manufacturing metal case

Sealed sensor and electronics

Power directly via USB

USB2.0 high speed interface

For Windows 2000 / XP / Vista



Including application software



Joy with your eyes

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MIC-T Digital Camera

Including SDK

With all the standard graphics tools, which this interface support

Demo Application:

All cameras have the standard functions includes:

- 1) Method save/load
- 2) Resolution selection
- 3) Exposure time control
- 4) Gain
- 5) Contrast
- 6) Gamma
- 7) Flip horizon/vertical
- 8) Overexposure show
- 9) ROI
- 10) Integration exposure setting
- 11) Sequential integration setting
- 12) Image capture
- 13) Filename/file format/save destination
- 14) Integration images preview
- 15) Saved images preview

TCC-6.1/TCC-6.1ICE camera	
Sensor manufacturer	Sony
Sensor type	ICX413AQ
Scan mode	interline
Sensor format	1.8"
Pixel size	7.8 μ m x 7.8 μ m
G sensitivity	1200mV
Resolution	3020H x 2016V
Filter	R, G, B
Lens mount	T-mount
Max Frame rate	2.9fps(3020 x 2016) 10fps (720 x 400) ROI mode
Low Speed Readout	Yes
Output RGB	12 bit
Peltier Cooled	-30 $^{\circ}$ C below ambient
Fan	30x30/5000rpm
Power	5V power supply
Exposure control	Automatic、 Manual
Exposure time	40ms-1jour(standard DLL) Special range optional
Angle light prohibition	Yes
White balance	Automatic、 Manual
Parameter	image size、 bright、 gain、 exposure time、 RGB



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MIC-T Digital Camera

Interface	USB2.0/480Mb/s
USB cable	2.5M
Power supply	USB2.0
Dimension	100mm*81mm*48mm (HXBXT)
Weight	480g
Operational temperature	0-60°C
Humidity	45%-85%
Storage temperature	-20-70°C

Each camera include:

TCC-6.1/TCC-6.1ICE digital camera (T-mount、2.5 meter USB cable、Peltier cooled cable)	1
Peltier cooled power supply	1
Driver、 software CD	1
Manual	1
Certification	1
Aluminum Carton	1



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MIC T Digital Camera



1.4MP color cooled CCD camera feature:

- . Scientific-grade CCD chip
- . Progress scan CCD
- . 1.4Mega pixels resolution (1360X1024)
- . 12 bit color RGB
- . Peltier cooled to -30°C below ambient
- . Angle light control function, obtaining a long fluorescence image
- . CNC aluminum alloy mental case, no dew

TCC-1.4CLICE	
1.4Mega pixels peltier cooled CCD camera	
CCD chip manufacturer	Sony
CCD chip model	ICX205AK
CCD scan mode	progress
CCD size	1/2 inch
Pixels	4.6micron x 4.6micron
G sensitive	400mV
Resolution	1360H x 1024V
Filter	R, G, B
Lens interface	standardf C-mount
Maximum fps	7.5 fps (1360 x 1024) 15 fps (1360 x 1024) high-speed mode
Low-speed readout	ok
A/D conversion	12 bit
Peltier cooled	-30°C below ambient
Fan	30x30/5000rpm
Power supply	5V exterior power supply

MIC-T Digital Camera

Exposure control	automatic、 manual
Exposure time	1ms-60minute
Angle light control	NO
White balance	automatic、 manual
Parameter	image size、 bright、 gain、 exposure、 RGB
Data interface	USB2.0/480Mb/s
USB cable	2.5 meter
USB power supply	USB2.0
Dimension	100mm*81mm*48mm (HXBXT)
Weight	480g
Operational temperature	0-60℃
Operational humidity	45%-85%
Storage temperature	-20-70℃

Each camera include:

TCC-1.4CLICE digital camera (standard C-mount、2.5 meter USB cable、peltier cooled cable)	1
peltier cooled power supply	1
Driver、 software CD	1
Manual	1
Certification	1
Aluminum carton	1

MIC-T Digital Camera

5.0Mega pixels resolution

scientific-grade,non-compress image output

high-fidelity color reproduction



one-click image acquisition and storage capabilities

multi optional accessories available

	TCA-5.0C
Sensor	Micron
Sensor type	MT9P001
Sensor size	1/2.5 inch
Pixels	2.2micron X 2.2micron
Resolution	2592H x 1944V
Filter	RGB Bayer
Lens interface	C/CS mount
Maximum fps	8fps (2592*1944) 30fps (640*480)
RGB	8 bit
Exposure control	automatic/manual
Exposure time	1ms-0.3S
White balance	automatic/manual
Scan mode	progress
Shutter	electronic rolling shutter
Sensitive	0.53V/Lux S(550nm)
S/N ratio	40.5dB
Dynamic range	>60dB

MIC-T Digital Camera

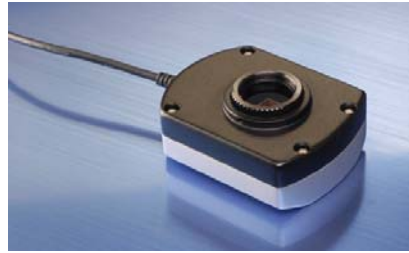
Controlling	image size , bright , gain , exposure time, color
Data interface	USB2.0/480Mb/s
USB cable	1.8 meter
Supply electricity	USB2.0
Dimension	65mm*86mm*37mm(HXBXT)
Weight	220g
Operational temperature	0-60℃
Operational humidity	45%-85%
Storage temperature	-20-70℃

Each camera include:

TCA-5.0C digital camera (standard C-mount、1.8 mete USB cable)	1
TCN-0.5 photograph reduce lens, 23, 30, 30.6mm direct insert interface	1
0.01 mm micrometer	1
Driver、software CD	1
Certification	1
Carton packing	1

MIC-T Digital Camera

9.0Mega pixels resolution
 scientific-grade, non-compress image output
 high-fidelity color reproduction
 one-click image acquisition and storage capabilities
 optional accessories available



9.0MP color CMOS cameras application:

TCA-9.0C digital camera can be directly matched with the standard C interface trinocular microscopes, stereo microscopes, metallurgical microscope and take digital images of the microscope camera system. close to the theoretical resolution limit of 9 million pixels , be the greatest show and photo-image effect.

TCA-9.0C	
Sensor	Micron
Sensor type	MT9N001
Sensor size	1/2.3 inch
Pixels	1.75micron X 1.75micron
Resolution	3488H x 2616V
Filter	RGB Bayer
Lens interface	C/CS mount
Maximum	2fps (3488*2616) 15fps (1280*1024) 30fps (640*480)
RGB	8 bit
Exposure control	automatic/manual
Exposure time	1ms-0.3S
White balance	automatic/manual
Scan mode	progress
Shutter	electronic rolling shutter
Sensitive	0.44V/LuxS (550nm)
S/N ratio	40.5dB
Dynamic range	>63dB
Controlling	image size , bright , gain , exposure time, color
Data interface	USB2.0/480Mb/s
USB cable	1.8 meter
Supply electricity	USB2.0

MIC-T Digital Camera

Dimension	65mm*86mm*37mm(HXBXT)
Weight	220g
Operational temperature	0-60℃
Operational humidity	45%-85%
Storage temperature	-20-70℃

Each camera include:

TCA-9.0C digital camera (standard C-mount、 1.8 meter USB cable)	1
TCN-0.5 photograph reduce lens, 23, 30, 30.6mm direct insert interface	1
0.01mm micrometer	1
Driver、 software CD	1
Certification	1
Carton packing	1



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