

Product Brief

High-Sensitivity Compact NEO Mini Series **NEW**

The NEO Mini series high-speed cameras adopt a new-generation back-side illuminated (BSI) CMOS sensor, delivering a maximum imaging frame rate of 12,500 fps within a compact and miniaturized body.



Key Features

Customizable non-volatile memory
4 TB

High-Sensitivity & Ultra-High-Speed Sensor
BSI CMOS

Peak QE
85%

10Gbps
10 Gigabit Ethernet high-speed data transmission

Compact size
≤ 110x110x105 mm

Auto EDR
Auto exposure & Double Exposure

Built-in mechanical shutter

IP64 protection standard

Motorized Lens

30Grms @11ms
3-axis 6-direction
60 pulses

-30° ~ 60 °C
Customizable wide temperature range

Offline operation

Anti-transport vibration

1080P@50fps
Video Output

EMC EMC protection

150 ns
Min. exposure time

Intelligent Trigger Capture

250 ns
Straddle time for PIV

Product Parameters

Key parameters

SKU	NEO Mini 12M/C	NEO Mini 09M/C	NEO Mini 06M/C	NEO Mini 03M/C
Sensor	BSI CMOS	BSI CMOS	BSI CMOS	BSI CMOS
Resolution	1280×1024	1280×1024	1280×1024	1280×1024
Frame	12500 fps	9000 fps	6000 fps	3000 fps
Shutter	Global shutter	Global shutter	Global shutter	Global shutter
Min. exposure time	150 ns	150 ns	150 ns	150 ns
PIV	250 ns	250 ns	250 ns	250 ns
AE	Available	Available	Available	Available
EDR	Available	Available	Available	Available

Connectivity & Signaling

SKU	NEO Mini 12M/C	NEO Mini 09M/C	NEO Mini 06M/C	NEO Mini 03M/C
Record button	Available	Available	Available	Available
Data interface	10 Gb/ Gb Ethernet	10 Gb/ Gb Ethernet	10 Gb/ Gb Ethernet	10 Gb/ Gb Ethernet
Video interface	SDI/HDMI	SDI/HDMI	SDI/HDMI	SDI/HDMI
Sync Input Interface	3.3/5V TTL	3.3/5V TTL	3.3/5V TTL	3.3/5V TTL
Sync Output Interface	5V TTL	5V TTL	5V TTL	5V TTL
Timing	DC IRIG_B in	DC IRIG_B in	DC IRIG_B in	DC IRIG_B in
Control interface	Reserve RS422	Reserve RS422	Reserve RS422	Reserve RS422

Memory

SKU	NEO Mini 12M/C	NEO Mini 09M/C	NEO Mini 06M/C	NEO Mini 03M/C
Flash Storage	256GB/512GB/1TB/2TB/4TB	256GB/512GB/1TB/2TB/4TB	256GB/512GB/1TB/2TB/4TB	256GB/512GB/1TB/2TB/4TB

Mechanical Specifications

SKU	NEO Mini 12M/C	NEO Mini 09M/C	NEO Mini 06M/C	NEO Mini 03M/C
Lens	EF/F/C	EF/F/C	EF/F/C	EF/F/C
Size W×H×D	≤ 110×110×105 mm	≤ 110×110×105 mm	≤ 110×110×105 mm	≤ 110×110×105 mm
Weight	1900 g	1900 g	1900 g	1900 g
Cooling	Fans	Fans	Fans	Fans

Electrical Specifications

SKU	NEO Mini 12M/C	NEO Mini 09M/C	NEO Mini 06M/C	NEO Mini 03M/C
Electricity supply	24 VDC	24 VDC	24 VDC	24 VDC
Power wastage	≤ 90 W	≤ 90 W	≤ 90 W	≤ 90 W

Environmental Specifications

SKU	NEO Mini 12M/C	NEO Mini 09M/C	NEO Mini 06M/C	NEO Mini 03M/C
Operating temperature	-10 ~ 50 °C	-10 ~ 50 °C	-10 ~ 50 °C	-10 ~ 50 °C
Operating temperature optional	-30 ~ 60 °C	-30 ~ 60 °C	-30 ~ 60 °C	-30 ~ 60 °C
Operating humidity	0 ~ 95 %	0 ~ 95 %	0 ~ 95 %	0 ~ 95 %
Protection level	IP64	IP64	IP64	IP64
Shock	30Grms @11mSec 3 axes 60 pulses	30Grms @11mSec 3 axes 60 pulses	30Grms @11mSec 3 axes 60 pulses	30Grms @11mSec 3 axes 60 pulses
Vibration	Resistant to transportation vibration	Resistant to transportation vibration	Resistant to transportation vibration	Resistant to transportation vibration
EMC	Available	Available	Available	Available