

EVOLUTION® 5000 Series

[The Optimal Thermal Imaging System For Each Need]

37f 40 - 2

703

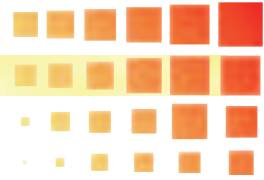
02)2636 - 0009

02)2636 - 4753

www.gilwoo.co.kr

giltron@chol.com

MSA
The Safety Company



4 High-Tech TIC Models in Comparison

EVOLUTION		5800	5200 HD	5200	5600
Applications	Fire Attack	++	++	+++	+++
	Incident Control	+++	+++	++	+
	Ventilation	+++	+++	++	+
	Hazardous Materials	+++	+++	++	++
	Maintenance	+++	++	+	+
	Situation Analysis	+++	++	+++	++
	Search and Rescue	+++	+++	++	++
	Wildland Firefighting	+++	++	+++	+++
	Fire Watch	+++	++	+++	+++
	Post-Fire Investigation	+++	+++	++	+
	Special Tasks	+++	+++	++	+
			For guidance only Suitable: + good ++ better +++ best		
Image Quality	Sensor	uncooled vanadium oxide microbolometer			
	Resolution [in pixel]	320 x 240	320 x 240	160 x 120	120 x 120
	ISDR [Instantaneous Scene Dynamic Range]	4795	4795	4795	3482
	High Sensitivity Mode [mK]	65	65	65	85
	Low Sensitivity Mode [mK]	240	240	240	350
	Viewing Angle [horizontal/vertical]	36°/27°	36°/27°	55°/41°	41°/41°
Features	Digital Zoom 2x	□	□	-	-
	Standby Mode	□	□	■	■
	Video Output	■	■	■	□
	Quick Temp	■	■	□	■
	Heat Seeker PLUS	■	■	□	■
		■ standard feature □ optional feature			
Mechanics & Electrics	Weight [with battery]	1.2 kg			
	Dimensions [H x W x D]	275 x 205 x 112 mm			
	Power Supply	Rechargeable Lithium ion battery pack			
	Operating Time	2 hours			
	Energy Consumption	less than 6.0 W nominal at 22 °C			
	Video Output	RS-170			

37 | 40 - 2

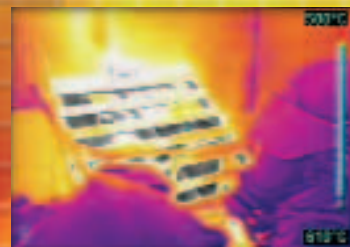
703

4 High-Tech TIC Models To Meet Your Individual Needs



EVOLUTION 5800 – the Versatile.

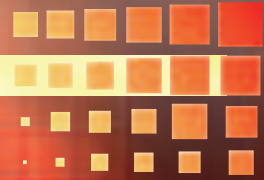
- 5 user-selectable palettes
- Image Detail Enhancement
- maximizes scene information
- optional 2 x digital zoom



EVOLUTION 5200 HD – the Brilliant.

- brilliant, high resolution image
- Image Detail Enhancement
- offers detailed information
- optional 2x digital zoom





**EVOLUTION 5200 –
the All-rounder.**

- high image quality
- widest viewing angle
- for various applications



**EVOLUTION 5600 –
the Economical.**

- state-of-the-art image resolution
- excellent price-performance ratio
- for the speedy overview



3가 40 - 2

703

Video Capture & Transmission System



[Video Capture]

With the Video Capture module for TICs, video recordings of the scene of operations can now be created quickly and easily. This is a unique feature ideal for documentation or training purposes.

- The small and independent module can be easily fitted to or removed from any TIC of the EVOLUTION 5000 series within seconds
- An integrated standard flash memory card provides up to 2 hours filming capacity in MPEG-1 format. Simple to download on any PC with a standard card reader
- Every 5 minutes a new file is opened which is very useful for documentation purposes

[Video Transmitter]

Real time video broadcast directly from the scene of operations to the incident command control: with the EVOLUTION Video Transmission System – consisting of a Transmitter and a Receiver Station.

- Small and easy to use stand alone unit
- Retrofittable and removable to any EVOLUTION 5000 series TIC within seconds, no camera upgrade needed
- Flexibility to deploy a video transmission system where and when you want
- Two channel analogue system



[Receiver Station]

The EVOLUTION Receiver Station, robustly integrated in a wheeled carrying case for every situation.

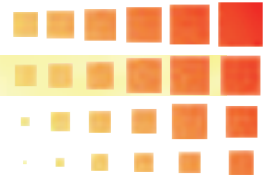
- Comprehensive and intuitive system
- Available with or without a 12" LCD monitor
- Built in video output for connection to an external monitor or recording device



[Video Transmission Distances]

- Line of sight: > 5000 metres
- Forest: 200 – 1000 metres [dependent on density]
- Subway tunnel: approx. 750 metres
- Concrete supply tunnel: approx. 60 metres

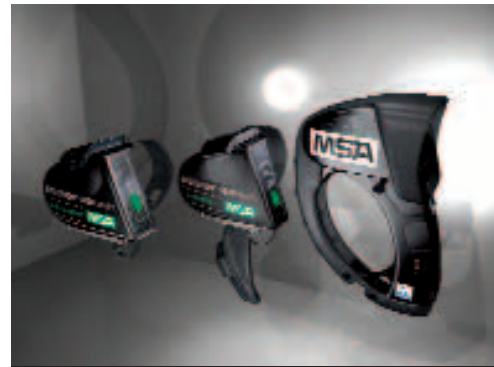




Tests & Technical Data

[Tests Conducted On All Components]

Water/Dust Ingress	CEI, IEC 529, IP 67 Classification [IP 54 for the Receiver]
Direct Flame	Simulated NFPA 1981-2002 Edition
Heat Exposure	Simulated NFPA 1982-1998 Edition
Vibration	MIL-STD-810E Category 1 Loose Cargo Transport
Radio Frequency Interference	Compliance with: directive 89/336/EEC in accordance with EN 61000-6-2 and EN 61000-6-4, FCC Part 15
Rollover [Truck Charger]	Simulated NFPA 1901-12,1.7
Impact/Drop	3 consecutive times onto concrete from 2 metres at any angle [For Video Capture & Transmitter 1.22 m]
Heat	260 °C for >8 minutes 120 °C for >20 minutes



EVOLUTION 5000 Modular Thermal Imaging System



Flame test



IP-67 test

[Technical Details]

EVOLUTION 5800, 5200 HD, 5200, 5600

Sensor	uncooled vanadium oxide microbolometer
Weight	1.2 kg [with battery]
Dimensions	275 x 205 x 112 mm [H x W x D]
Energy Consumption	less than 6.0 W nominal at 22 °C
Video Output	RS-170
Operating Time	2 hours

Video Capture

Weight	380 g [with battery]
Dimensions	120 x 140 x 120 mm [H x W x D]
Recording Time	2 hours
Memory Card	Standard RS-MMC
Data Format	MPEG-1
Operating Time	> 5 hours

Transmitter

Weight	460 g [with battery]
Dimensions	210 x 140 x 120 mm [H x W x D]
Transmitting Power	450 mW EIRP
Operating Time	> 4 hours

Receiver Station

Antenna	Directional flat panel [18 dB]
Video Output	BNC [male] type connector NTSC on receiver without monitor PAL on receiver with monitor
Power	12/24 VDC and 110/230 VAC
Additional Approval	E1 for vehicles

For All Components

Power Supply	Rechargeable Lithium Ion battery pack
Warranty	2 years

Support & Ordering Information

Along with the high-tech Thermal Imaging System, MSA also provides a high level of customised support and service. MSA will happily offer you all the advice and support you need to help you determine your exact requirements, thus ensuring that the camera you choose will offer you the best price/performance ratio.

The EVOLUTION 5000 components are maintenance-free. But should you wish to avail of MSA's repair and maintenance services, which includes the replacement of equipment in repair, simply contact your distributor or local MSA company for further details.

EVOLUTION 5800 TIC

[Video Output, Heat Seeker PLUS and Quick-Temp as standard]

10098049	EVOLUTION 5800 standard with Standby Mode
10098048	EVOLUTION 5800 with Digital Zoom 2x [without Standby Mode]

EVOLUTION 5200 HD TIC

[Video Output, Heat Seeker PLUS and Quick-Temp as standard]

10081715	EVOLUTION 5200 HD standard with Standby Mode
10081714	EVOLUTION 5200 HD with Digital Zoom 2x [without Standby Mode]

EVOLUTION 5200 TIC

[Video Output and Standby Mode as standard]

10063770	EVOLUTION 5200 standard TIC
10063772	EVOLUTION 5200 with Quick-Temp
10063773	EVOLUTION 5200 with Heat Seeker PLUS
10063775	EVOLUTION 5200 with Heat Seeker PLUS and Quick-Temp

EVOLUTION 5600 TIC

[Standby Mode, Heat Seeker PLUS and Quick-Temp as standard]

10083575	EVOLUTION 5600 standard
10083576	EVOLUTION 5600 with Video Output

For all TICs, accessories must be ordered separately.

Video Capture

10064785	Video Capture [incl. 10069791 MMC-Memory Card Reader and 10069792 RS-MMC Memory Card 512 MB]
----------	--

Video Transmission System

10048841	Transmitter [incl. 10043960 Lithium ion battery pack]
10039300	Receiver Station with case [without monitor]
10049271	Receiver Station with monitor and case
10067721	Receiver Station [without monitor and case]

Accessories

10043951	Desktop battery charger
10043960	Lithium ion battery
10101312	Vehicle mounted charger
10067707	Vehicle mounted bracket, non-charging
10040223	Camera case
10038970	Disposable display covers [pack of 3]
10039516	Wrist strap with clip
10039515	Shoulder strap
10040226	Retractable lanyard
10040005	Carabiner attachment
10039603	Sun shroud
10040163	Reflective trim kit
10062184	Reflective ID label kit
10040229	Tripod mount
10040004	Video adapter cable SMA to BNC
GA10007002	Permanent power supply
10032164	Antimist Agent klar-pilot spray



Permanent power supply



Vehicle mounted charger

Your direct contact

Korea:

374 40 - 2

703

02)2636 - 0009

02)2636 - 4753

www.gilwoo.co.kr

giltron@chol.com

Subject to change without notice

MSA EUROPE Regional Head Offices & Great Britain [www.msa-europe.com]

Northern Europe
MSA Nederland B.V., Hoorn
Phone +31 [229] 25 03 03
E-Mail info@msaned.nl

Central Europe
MSA AUER GmbH, Berlin
Phone +49 [30] 68 86-0
E-Mail info@auer.de

Eastern Europe
MSA Safety Sp. z o.o., Warsaw
Phone +48 [22] 711-50 33
E-Mail mee@msa-europe.com

ID 34-315.2 GB/03/IL/04.09/DP

Southern Europe
MSA Italiana S.p.A., Rozzano
Phone +39 [02] 89 217-1
E-Mail info-italy@msa-europe.com

International Sales
MSA EUROPE, Berlin
Phone +49 [30] 68 86-555
E-Mail contact@msa-europe.com

Great Britain
MSA [Britain] Limited, Coatbridge
Phone +44 [12 36] 42 49 66
E-Mail info@msabritain.co.uk

MSA
The Safety Company