

# Frame Grabber FGR5



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# Additional investment security and universal connection options

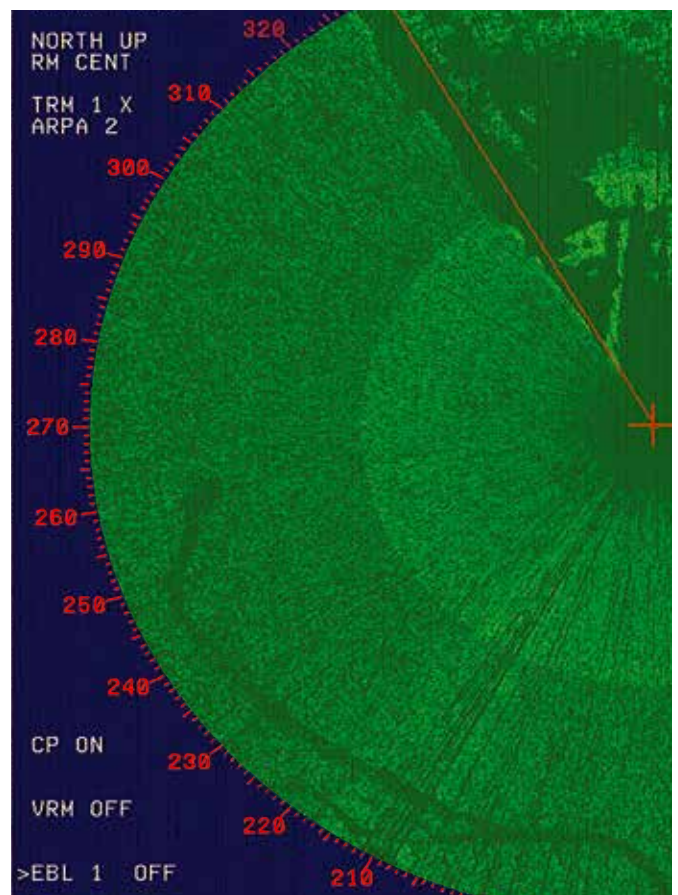
The new FGR5 is equipped with a variety of new features that not only provide additional investment security, but also increase the system's performance in terms of universal connection options.

## Benefits

- FGR5 docks on a number of digital sources (DVI, HDMI) as well as on mixed analog and digital sources
- Improved resolution and support of additional image formats
- Simplified installation and configuration, an improvement that reduces service times

## Application areas

- The FGR5 is currently being used in our voyage data recorders
- In general, the FGR5 can be used everywhere snapshots of monitor information are required, including monitoring systems
- The pre-condition for a further use of the FGR5 is that
  - a) users independently implement one of the available transmission protocols or that
  - b) we install additional transmission protocols from the general industrial and visual environment



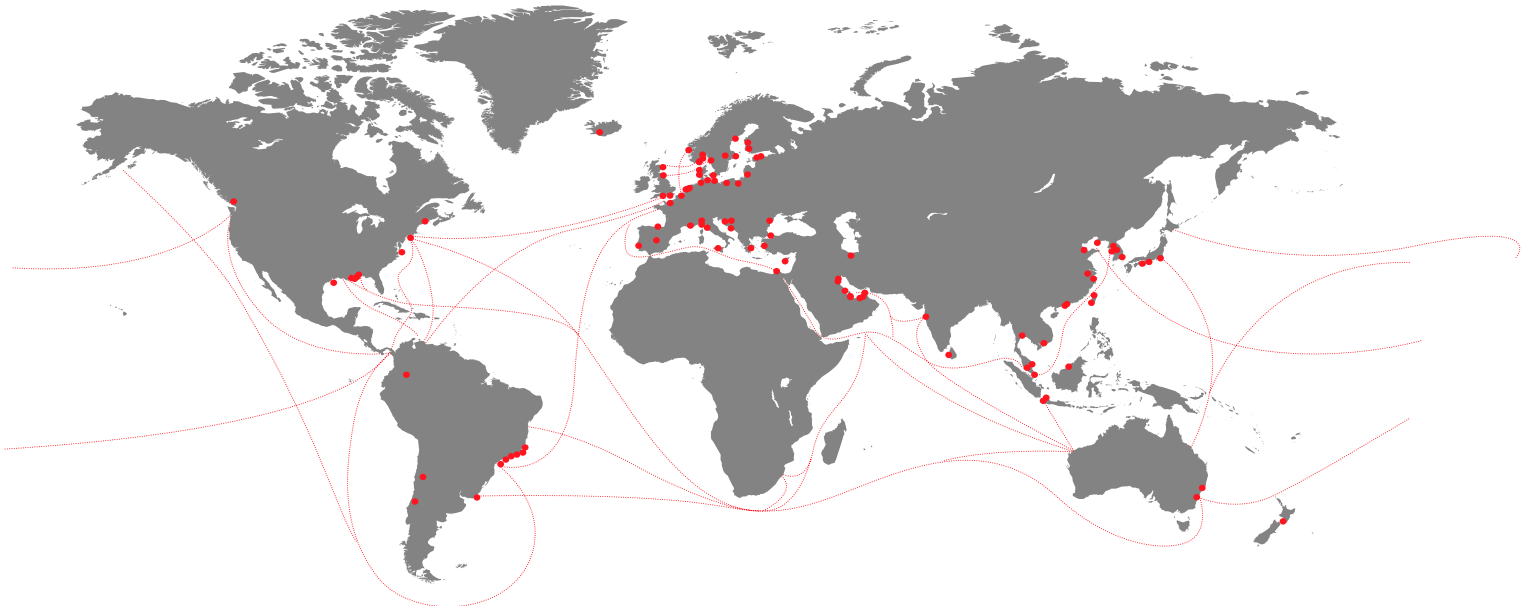


## Performance characteristics

	FGR5
<b>Input connector</b>	DVI-I, HDMI
<b>Signals (max. image source)</b>	2
<b>Type of signal</b>	VGA, single link DVI, HDMI
<b>Resolution</b>	1.920 x 1.200
<b>Configuration</b>	Simple configuration via web-interface / automatic configuration possible Automatic VGA adjustment
<b>Network</b>	2 independent ports (one with POE) 10/100/1.000 Mbit
<b>Watchdog</b>	supported
<b>Update</b>	simple WEB-based-procedure
<b>Image format/ compression</b>	bmp, bmp as zip, bmp.gz, png, jpg (not according IEC 61996)
<b>Transfer protocol</b>	According IEC 62388, Annex H.4 and IEC 61996-1 Ed.2 (approved) According IEC 61162-450 (binary transfer) and IEC 61996-1 Ed.2 (awaiting approval) proprietary Avecs/INTERSCHALT
<b>Service options</b>	Internal log via WEB interface Local image storage (last image)

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MacGregor solutions and services for handling marine cargoes, vessel operations, offshore loads, crude/LNG transfer and offshore mooring are all designed to perform with the sea.

*MacGregor is part of Cargotec (Nasdaq Helsinki: CGCBV).*

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[macgregor.service@macgregor.com](mailto:macgregor.service@macgregor.com)  
[macgregor.com](http://macgregor.com)

