Limitless design

Development environments for creating your own graphical interface are freely available online. IMET provides some working demos, useful for understanding how to create your own GUI, and software startups to reduce development time: it is thus possible for the manufacturer to develop their own graphic interface completely independently and respond to any need deriving from their specific application. The available features are enriched by the list of languages supported by the displays: a constantly expanding list to make the use of GFX and CDS convenient for users of more and more nationalities.

Responsiveness and speed

The GFX and CDS cores are sized to give immediate responses to the user. Everything has been designed to reduce latency times in the various operations involving the display. Particular attention was given to the management of boot and restart after standby phases, the most delicate and impactful in the usability of an accessory. GFX startup takes only a few moments to be operational when switched on, significantly differentiating itself from similar items on the market. CDS solution, instead, integrates an intelligent pause management mechanism, which offers high reactivity starting from hibernation phases: even in CODESYS work environment, after the initial startup phase, it is possible to obtain particularly fast response times.
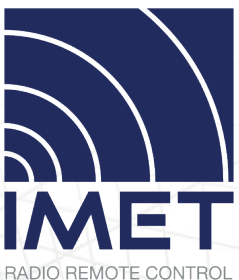
Technical Data

		GFX	CDS
Display		4.3"	4.3"
Colors		16.7M	16.7M
Resolution		480x272	480x272
Format		16:9	16:9
Surface Luminance		800 cd/m²	800 cd/m²
Angular visibility $\theta_T \theta_B \theta_L \theta_R$		80° MIN, 85° TYP	80° MIN, 85° TYP
Internal memory		64MB	>2 GB
IDE		TouchGFX 4.22.1 Designer	CODESYS V3.5 SP19
Communication interface		USB, JTAG	USB, Ethernet
Supported images		.png / .svg	.png / .jpeg / .svg / .jpg / .bmp
Supported video		MJPEG AVI	/
Case material		Charged Nylon UL94 HB	Charged Nylon UL94 HB
Themes		2: Dark mode and Light mode	2: Dark mode and Light mode
SW license		Free on-chip	On payment (included)
Autonomy (Li-Ion battery) Backlight 100% active	TITAN	12 h / 24 h ★	9.5 h / 19 h ★
	THOR2	7.5 h / 15 h ★	6 h / 12 h ★
	ZEUS2	7.5 h	6 h
	ZED	7.5 h	6 h
Autonomy (Li-Ion battery) Backlight at factory setting	TITAN	16.5 h / 33 h ★	12 h / 24 h ★
	THOR2	10 h / 20 h ★	7.5 h / 15 h ★
	ZEUS2	10.5 h	7.5 h
	ZED	10.5 h	7.5 h

★ TWINB

IMET Srl reserves itself the right to make eventual changes to the product without prior notice.

GFX & CDS
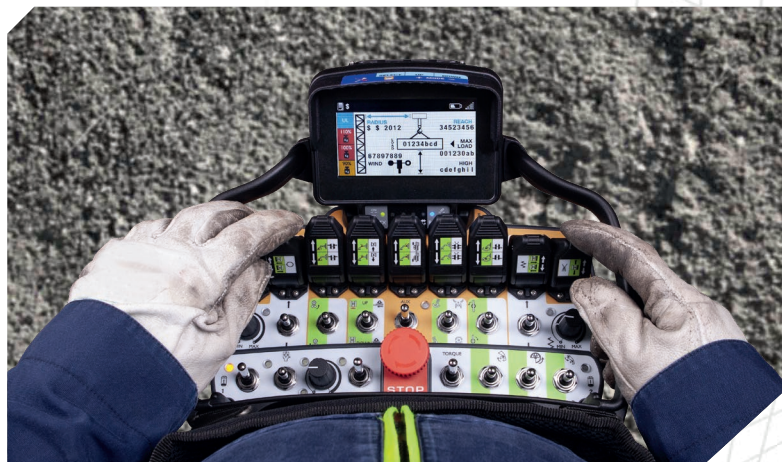## DISPLAY 4.3"

Advanced visual solutions

The continuous research and development that makes IMET a leader in innovation for industrial radio controls has led to the new GFX (STMicroelectronics®) and CDS (CODESYS®) color displays. These allow to easily and intuitively manage any machine, having all the desired parameters under control, displayed clearly and effectively on a handy 4.3" color display.

The new displays are equipped with a revolutionary diagnostic system: it is now possible to monitor in real time the correct operation of the radio control and all its components. Controlling machines, even complex ones, has never been easier.

The freedom of being able to develop your own graphic interface (GUI) independently completes the description: GFX and CDS are the leading innovations in the world of industrial radio controls!

IMET — RADIO REMOTE CONTROL

GFX & CDS

DISPLAY 4.3"

A cross-cutting solution

GFX (STMicroelectronics) and CDS (CODESYS) are compatible with all IMET TITAN, THOR2, ZEUS2 and ZED radio remote controls. Equipped with 4 dedicated buttons that are easily accessible even with gloves and under difficult working conditions, they allow the user to make the most of the menus available in the large 4.3" display, shown in a very clear and contrasted way at the top of the screen. The new IMET visual solutions can be equipped with PAD Protection, the new accessory produced by IMET to improve the visibility of displays or LEDs in particularly unfavorable light conditions: available as an option, PAD Protection can be attached to the display housing, resulting in a single body with it, resistant to shocks and aggressive environments.

Reliability and robustness

GFX and CDS features make them an ideal tool for use even in the most critical environments. High angular visibility in all directions allows the display to be used in any working condition, adapting perfectly to the most diverse situations. The quality of the chosen materials, combined with the special shape factor designed by IMET, gives GFX and CDS a level of robustness unmatched on the market, accompanied by an IP65-certified degree of protection. Completing the new displays' features are antiscratch protection (which ensures lasting quality of the display visual performance) and anti-fingerprint protection (which reduces the need for constant display cleaning operations).

Maximum operability in all lighting conditions

New IMET displays are designed for use in any working environment; in fact, they are equipped with a backlighting system that can provide excellent performance in both bright and dark environments; in addition, two themes (Dark mode and Light mode) available on board and set manually by the user make using the remote control even easier and more convenient.
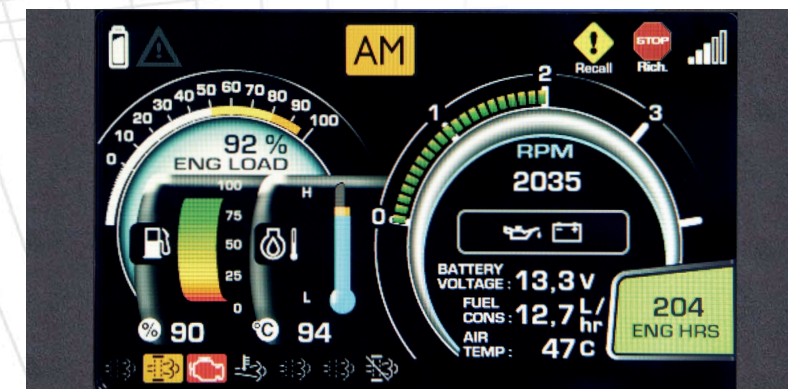
THOR2

ZEUS2

TITAN

ZED

Simplicity and clarity

GFX (STMicroelectronics) and CDS (CODESYS) feature a large 16.7 million color display. The 480x272 pixels resolution (in 16:9 format) provides an excellent experience in viewing and reading both text messages and drawings or icons; the high definition of the new line of displays allows immediate and easy ability to use the remote control. Video playback support in GFX and the management of sequential images in CDS join the features of these tools which bring together in a single solution the intuitiveness needed by first-time operators and the maximum power in performance for more experienced users.

Maximum versatility

The great configurability that characterizes GFX and CDS allows them to be used in a wide variety of work areas ranging from drilling to canal jetting, from agriculture to construction or industrial lifting. The ability to display in real time parameters made available by the machine allows the operation of the entire system to be under control at any time, while increasing efficiency and the level of safety for operators.

TWINB: smart charge management

TWINB double-battery configuration management system allows you to optimize charge consumption, at the same time safeguarding the supplied batteries from excessive wear and simultaneously increasing the autonomy available with the THOR2 and TITAN radio controls. IMET innovations once again allow to make the most of the potential of tools made available by the most recent technology.

Intuitive and immediate diagnostics

GFX and CDS allow you to view all diagnostic information related to the radio control in use. Thanks to the functions to monitor the correct operation of each selector, switch, joystick or button present in the remote control, the user has immediate identification of errors or system malfunctions, even with the receiver turned off or unavailable. The new IMET displays help thus drastically reducing the time needed for analysis and troubleshooting of technical issues.