



Camera-Monitor-Systems

FOR CRANES

Lattice boom crawler cranes

LOAD HOOK, WINCH AND ROUTE MONITORING

Machine downtimes due to collision or slack cable formation cause unnecessary expenditures in time and money. Camera and monitor systems boost efficiency and reliability of the work processes and reduce costs.

The operator can remotely observe the load hook, the route and the winch. The quad monitor displays all images simultaneously, enabling the driver to see all danger zones at any given time.



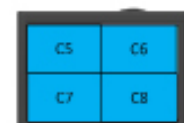
EXAMPLE

**MDDE1072/MDDE1072-LSH
MDDE1000-AK-1 Heavy-duty monitor**

MDDE1072/MDDE1072-LSH
MDDE1000-AK-1



12-14V DC



MDDE1



Lattice boom crawler crane deployed in the installation of a wind power station.

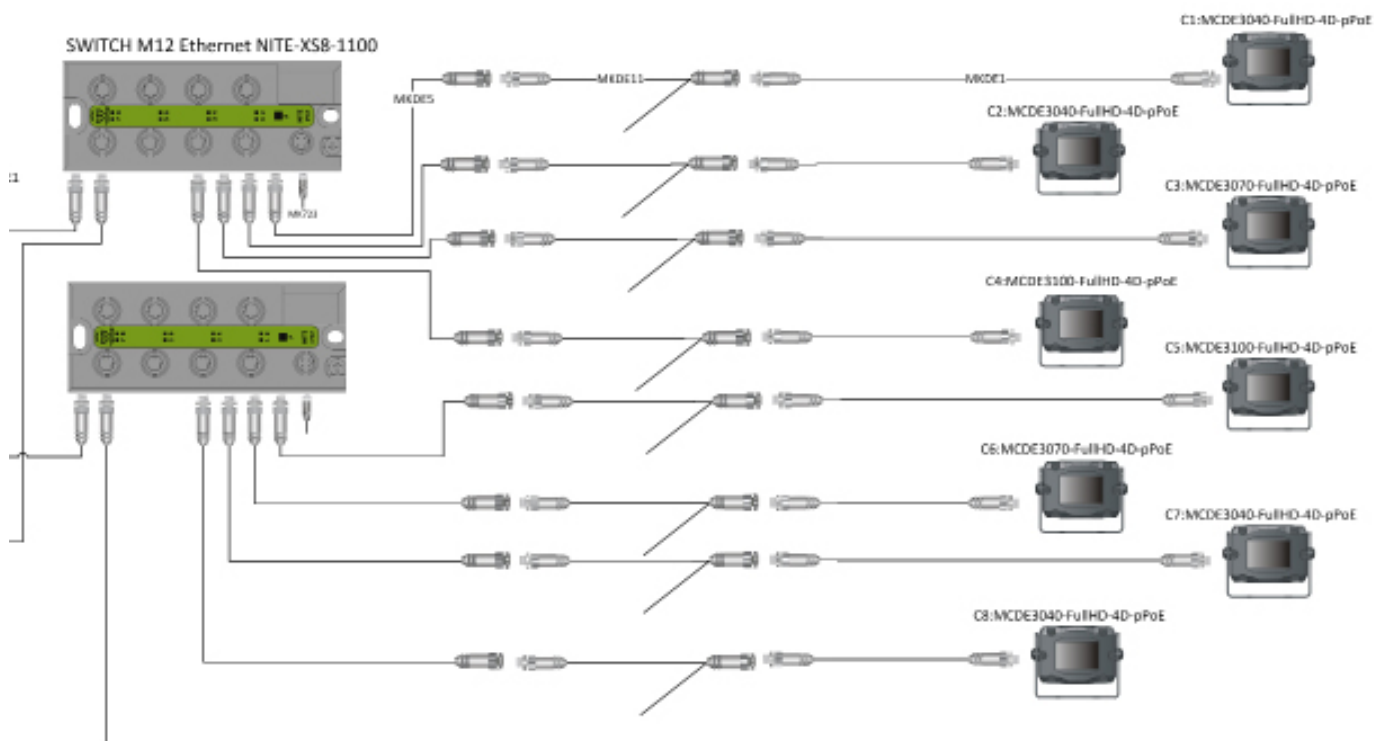


MC3000B for winch monitoring.



**SWITCH M12 Ethernet
NITE-XS8-1100**

**C1:MCDE3XXX-FullHD-4D-pPoE
Heavy-duty camera**



TELESCOPIC CRANES SAFELY MOVING LOADS

Telescopic cranes frequently operate beyond one's field of vision, making the operator dependent on signals by colleagues. By using a camera and monitor system and a special motor zoom camera with pendulum mounting at the telescopic boom, the operator can act without needing a signaller and, furthermore, has an unrestricted and constant view of the load.

One or two additional heavy-duty cameras increase safety when starting or manoeuvring the equipment.



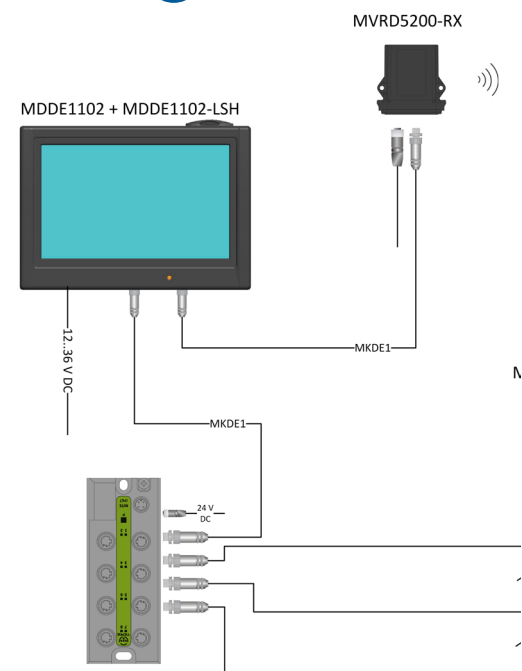
EXAMPLE

MDDE1102 + MDDE1102-LSH
Heavy-duty monitor

1

MVRD5200-RX
Receiver

2

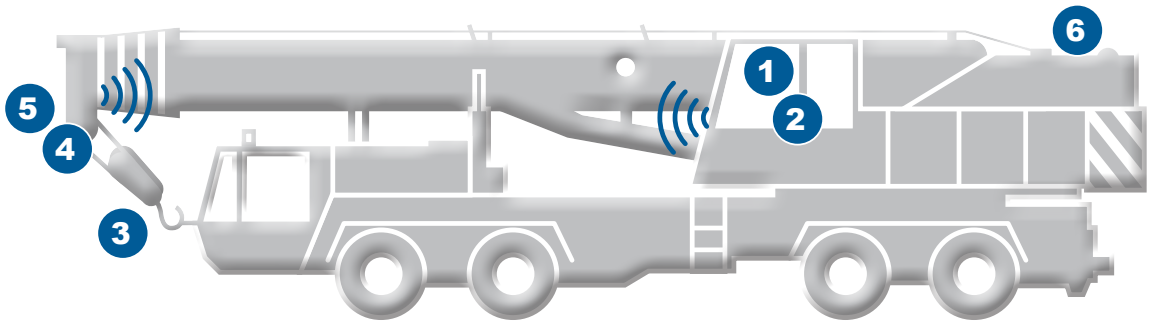




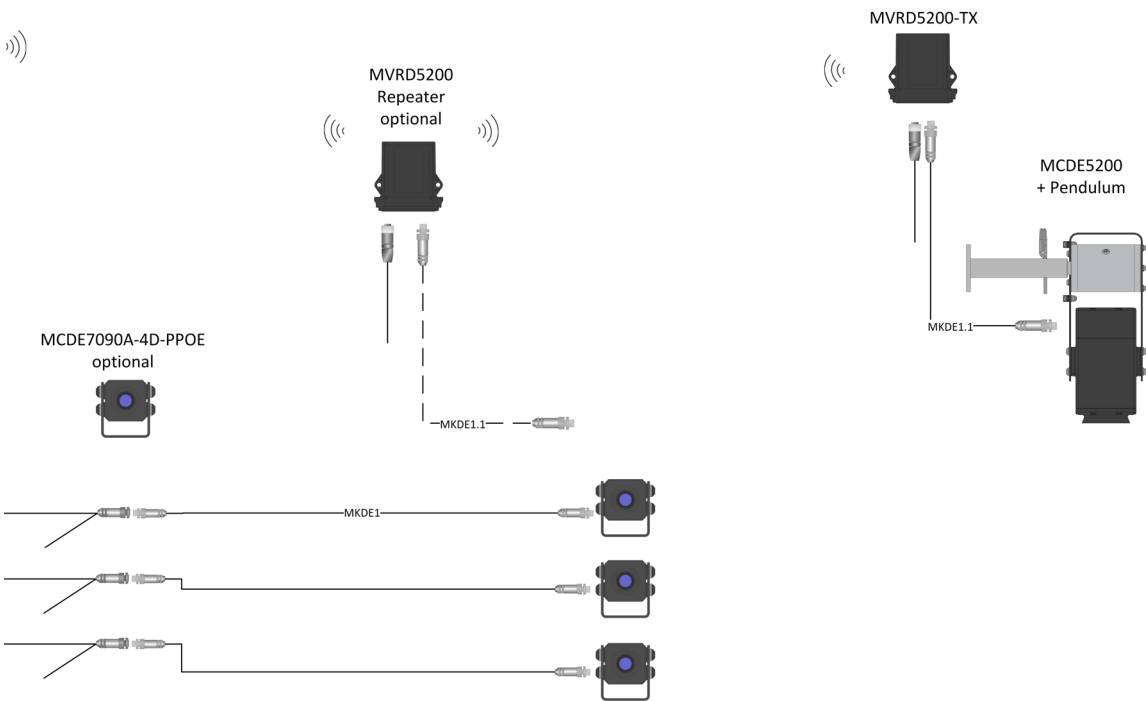
An all-terrain telescopic crane fitted with a Motec camera and monitor system.



MC7000P-E rear view camera.



3 MVRD5200 Repeater optional	4 MVRD5200-TX Transmitter	5 MCDE5200 + Pendulum	6 MCDE7000A-4D-pPoE Winch View
--	---	---	--



Tower cranes

MOVING LOADS – SAFELY AND WITHOUT DAMAGE

Operators of slewing tower cranes frequently work at extreme heights and depend on radio or special signals to safely control the boom.

By using a camera and monitor system and a special motor zoom camera with pendulum mounting at the telescopic boom, the operator can act without needing a signaller and, furthermore, has an unrestricted and constant view of the load, the steel rope and colleagues working within the slewing zone of the boom.



EXAMPLE

MDDE1102 + MDDE1102-LSH
Heavy-duty monitor

1

MDDE1102 + MDDE1102-LSH

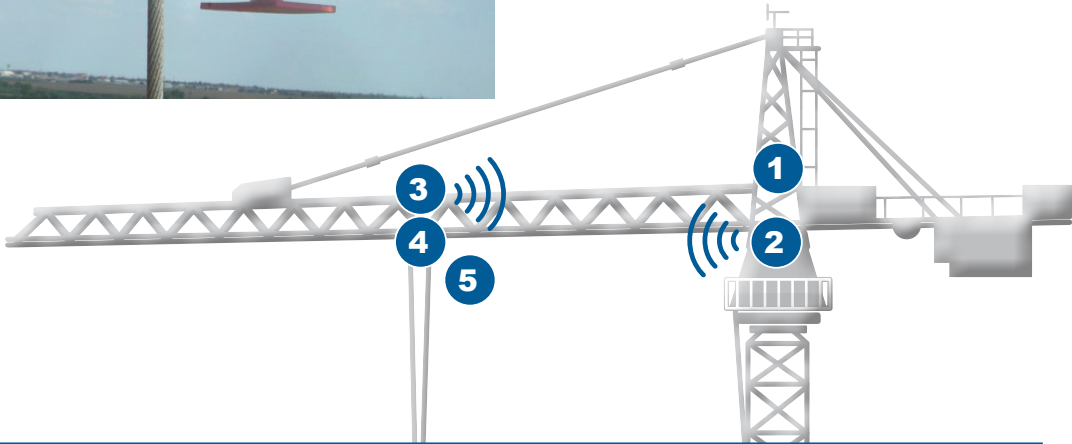


12.36 V DC

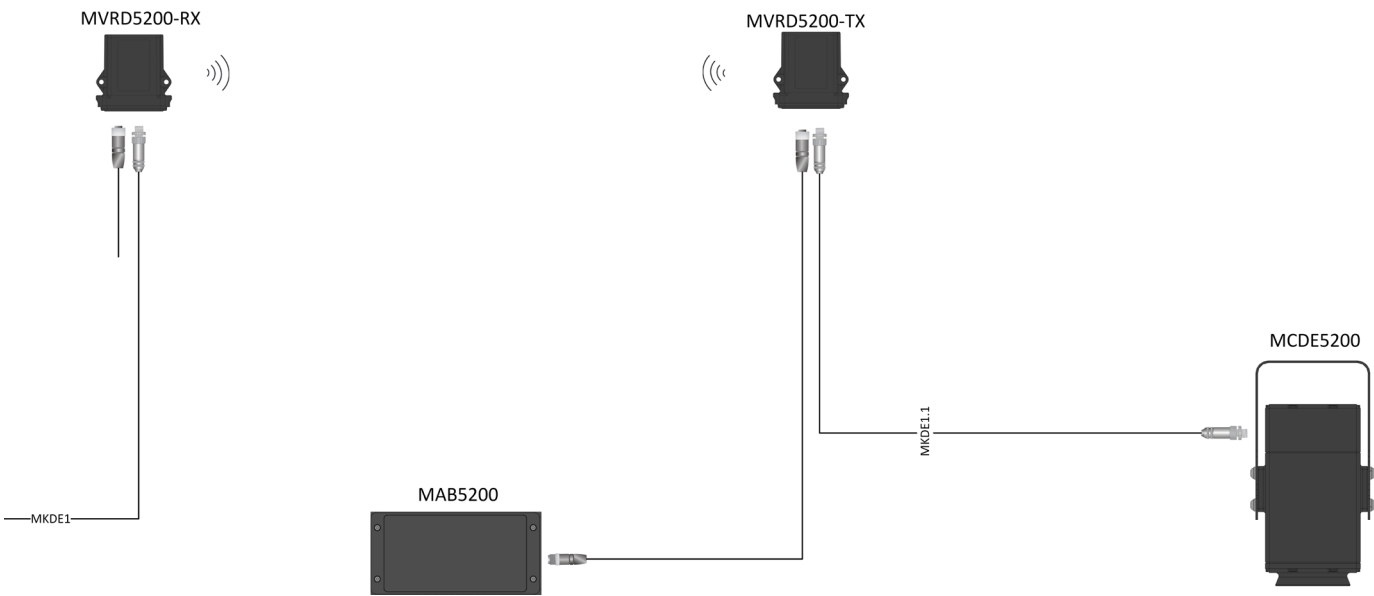
MK



Detail view of a top-slewing tower crane with cabin. The motor zoom camera and the radio transmitter are mounted at the crane carriage.



2	MVRD5200-RX Wireless Receiver	3	MVRD5200-TX Wireless transmitter	4	MCDE5200 Heavy-duty motor zoom camera	5	MAB5200 Battery Pack
----------	---	----------	--	----------	---	----------	--------------------------------



Luffing Tower Crane

THE LOAD ALWAYS IN SIGHT

Operators of of slewing tower cranes are far removed from the load they move and are dependent on signals by colleagues.

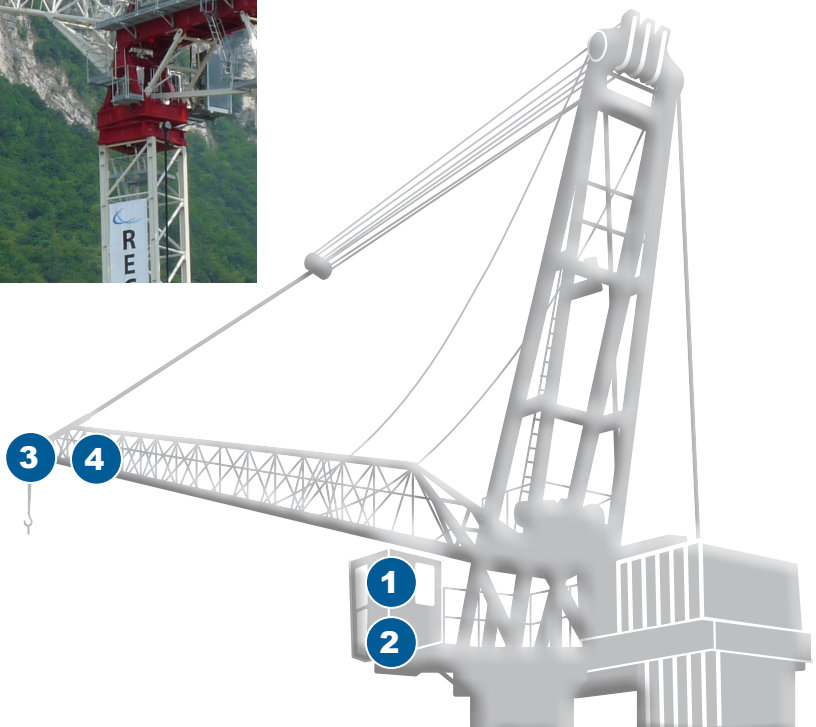
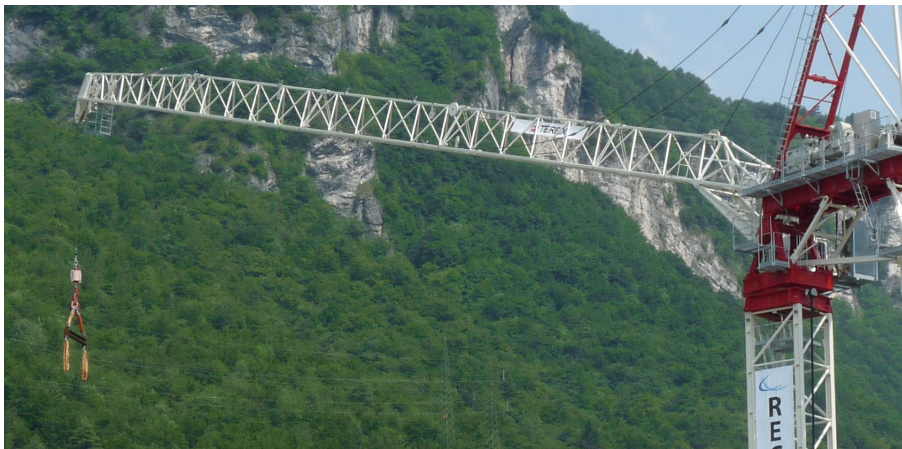
By using a camera and monitor system and a special motor zoom camera, the operator can act without needing a signaller and, furthermore, has an unrestricted and constant view of load and destination.

Due to the adjustable setting angle of the jib, the crane requires that the holder be flexible. Thanks to a pendulum mounting concept, the camera will always be vertical.

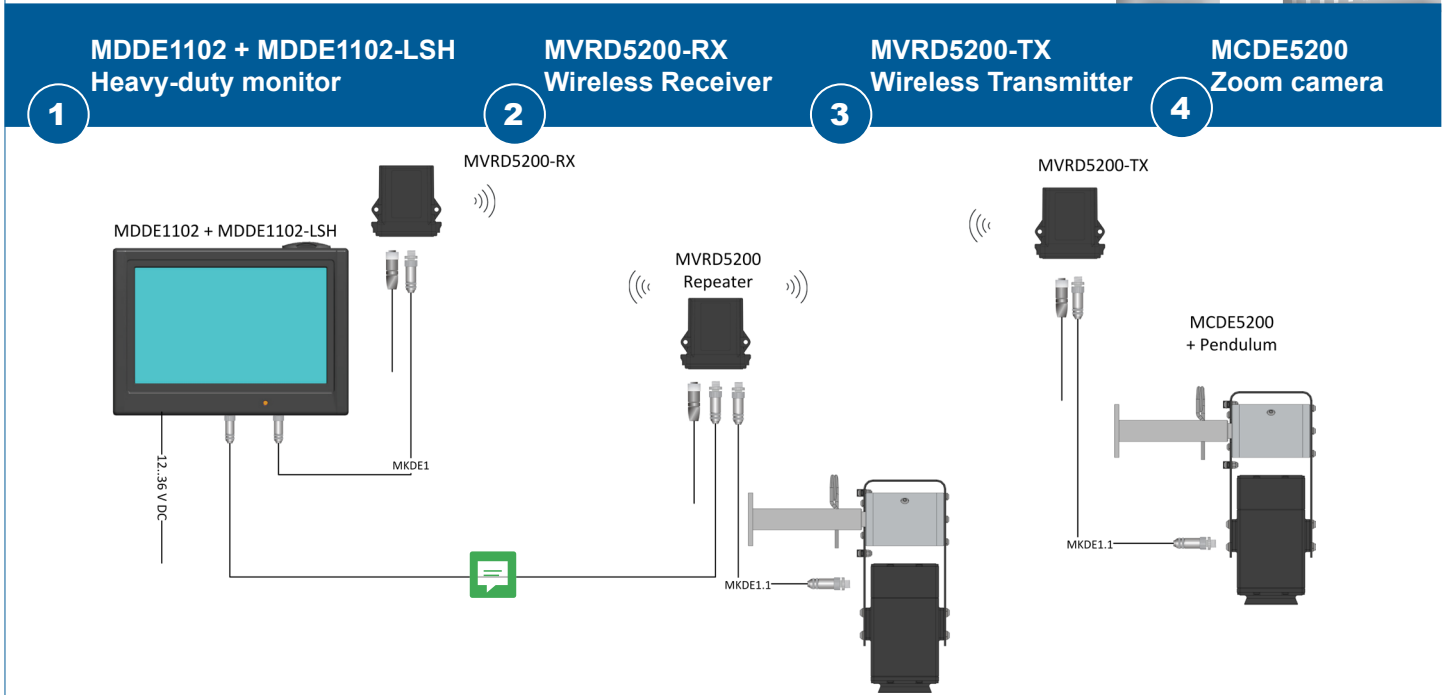




Motor zoom camera at a jib.
The pendulum mounting allows the camera to adapt to the jib's tilt angle.



EXAMPLE



Mobile harbour cranes

CAN BUS-CONTROLLED DIGITAL CAMERA SYSTEMS

The demands on mobile harbour cranes and material handling equipment are very high. They must work quickly and without causing damage, despite poor visibility and, sometimes, with little space to manoeuvre. Under such conditions, the crane operator must not lose sight of the hooked load, distances to the ship's hull, the position of other containers and objects and, where required, the rear space.

An intelligent and expandable camera and monitor system optimally supports the crane operator in these issues and thus ensures efficient and cost-saving operations.



EXAMPLE

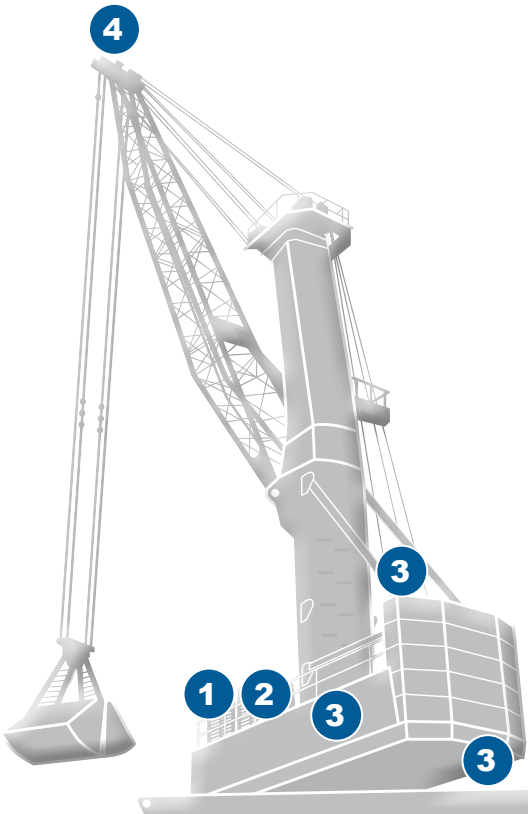
MDDE1102 + MDDE1102-LSH
Heavy-duty monitor

1





Motec camera and monitor systems used in load monitoring in container, general cargo and bulk handling.



2

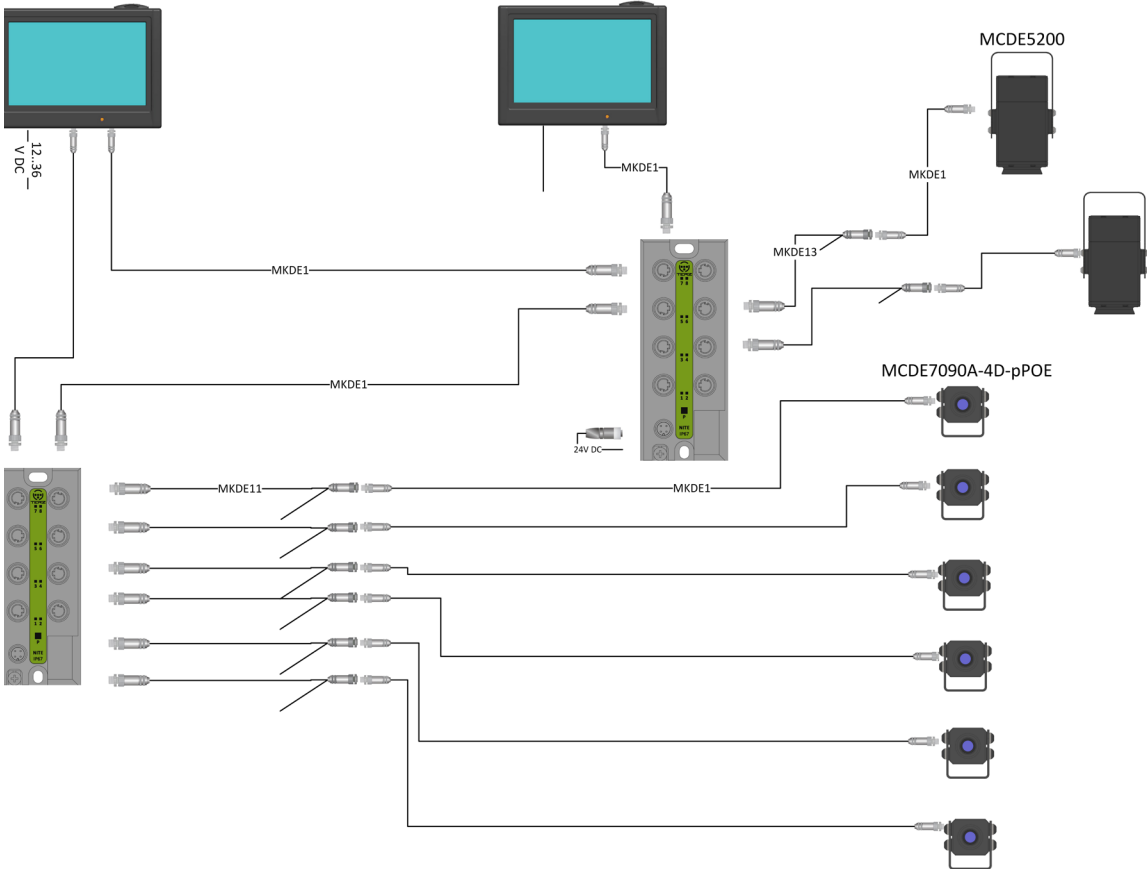
SWITCH M12 Ethernet
NITE-XS8-1100

3

MCDE7XXXA-4D-pPoE
Heavy duty compact camera

4

MCDE5200
Heavy-duty motor zoom camera





Motec GmbH
Oberweyerer Straße 21
65589 Hadamar
GERMANY

Phone +49 6433-9145 0
motec.info@ametek.com
www.motec-cameras.com

