

# DD422i / DD422iE TELEREMOTE DRILLING

## TECHNICAL SPECIFICATION

Teleremote drilling is an advanced and portable drilling control station available for Sandvik DD422i / DD422iE development drills allowing easy and reliable way to control the drilling operation from the remote location providing possibilities to increase both safety and productivity in underground mine development. Designed for quick and easy setup the Teleremote drilling provides a functionality to monitor and operate the unit allowing to drill additional holes from remote e.g. during shift change, blasting and ventilation times. It allows to reduce operator exposure in underground conditions during drilling providing more comfortable and safer working environment where needed. The system uses wireless communication and can be integrated with existing mine network.

Teleremote drilling package consists of:

- Portable remote control station
- Onboard package containing 3 x PTZ cameras, readiness for 2 x remote controlled spot lights (option) and software module for transferring the control signals and related information exchange such as drill plans and drilled round reports between the unit and the control station.

### KEY FEATURES

Available controls	All drilling related controls including GUI touch screen Start / Stop of automation Manual drilling and boom controls Control of PTZ cameras Control of spot lights (separate option) Sending drilling related data (drill plans, round reports, etc.) Unit condition monitoring via GUI screen Audio and video stream from the unit
Compatible unit models	DD422i, DD422iE
Communication protocol	IP based protocol, IEEE 802.11b/g/n (WLAN)
Video stream	HD quality (full HD readiness)
Mandatory options	Needs to be selected separately - Sandvik access protector - Automatic fire suppression system



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## REMOTE CONTROL STATION

Content	Remote control panel 2 x 22" full HD touch screen display Teleremote control PC Portable joystick for camera and light controls
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Weight	Remote control panel 23 kg Displays 2 x 7,5kg (shipping box 12,5 kg)
Dimensions (W x D x H) mm	Remote control panel 960 x 395 x 240 with 2 x display 1 120 x 670 x 390
Power supply	110 – 240 V, 50 or 60 Hz, 300 W for displays and remote control panel
Environmental rating	IP Class: IP2x, Temperature: 0 - 25° C
Interface to external systems	Ethernet LAN

## ONBOARD PACKAGE

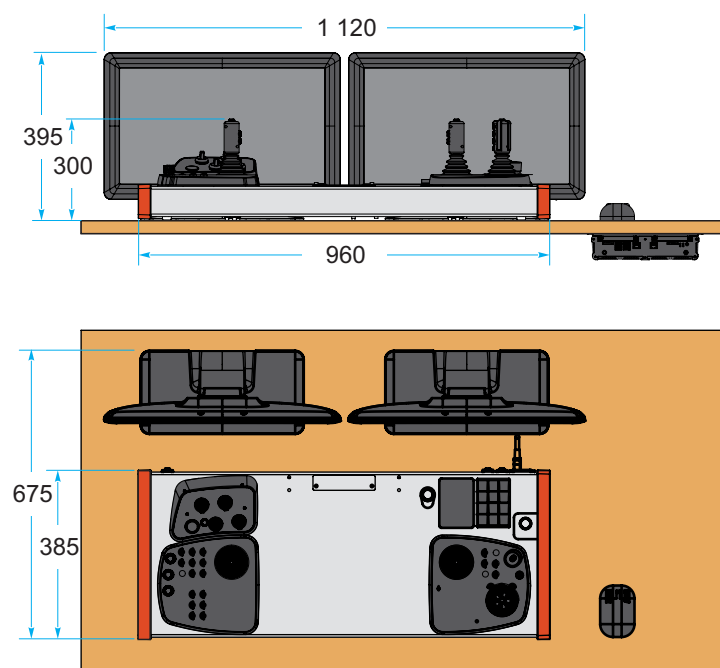
Camera system	3 x PTZ cameras, optical zoom, HD resolution, IP66 rating
Wireless antenna	Standard

## NETWORK REQUIREMENTS

Wireless	IEEE 802.11b/g/n min. 15M bit/s per machine
Latency	Less than 200ms preferred for seamless video stream and usable operation

## EQUIPMENT OPTIONS

Mandatory	Automatic fire suppression system (Sandvik Eclipse™ or Ansul) Sandvik Access protector
Recommended	Drill bit changer Remote joystick controlled spot lights Automation package: Gold or Platinum



*All dimensions in mm*

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