

OPERATE UNDERGROUND MACHINERY SAFELY FROM THE SURFACE OF THE MINE



SURFACE SOLUTION
FOR TELEREMOTE
UNDERGROUND MINING



An underground miner operates heavy machinery deep underground and has to endure the hazardous environment (noise, vibration, dust, fumes, etc) it comes with it on a daily basis. Solution? Remove the person from that situation in the first place.

The ControlMaster® Teleremote is a unique solution which removes the operator from the hazardous mining area and places them in a more secure and protected location on the surface to remotely operate underground machines. It paves the way for a more rapid and smoother changeover of vehicle operators during shift transitions, aiding in increased productivity, and operator health and safety.

The operator has full control of the machine with the assistance of multiple heavy duty cameras and sensors at their disposal, and in the comfort of an ergonomic, safe and clean environment on the surface.

The communication systems utilises fibre optic cables which do not generate any interference, therefore not prone to unreliable communications.

The solution works in conjunction with the standard Teleremote equipment installed on the underground machine and the antenna/network system in the drives.

BENEFITS

- Increased safety and productivity
- Removes operators from the hazardous underground work environment and allows safe operation from the surface
- Reduces the number of personnel underground, reducing the risk of personnel injury
- Signals are received without delay or latency with the use of fibre optic communications allowing for more effective Teleremote operation.
- The opportunity for “hot seat” shift changes reduces operator down time and increases production time.

TRUCK LOADING OVERVIEW

The Surface Control Truck Loading System allows the operator to load the truck by Teleremote control from the ergonomic and safe Surface Control Station.

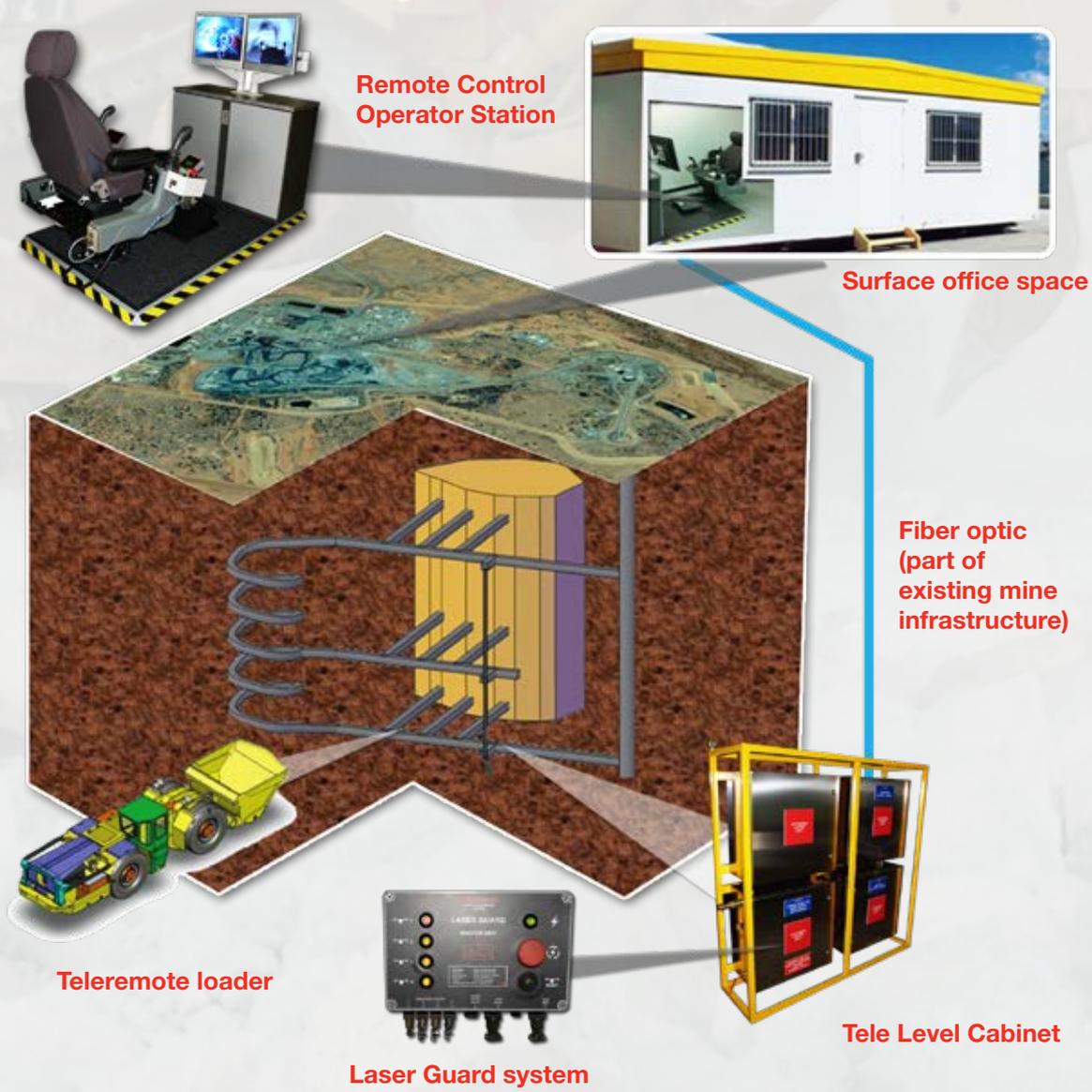
All additional video and control signals required for the efficient loading of the truck, occurring between the Surface Control Station and the underground equipment, are conveyed via fiber optic cables.





The Surface Control Station includes:

- Operator chair with Teleremote control via the joysticks on the arms of the chair
- CM ATX2200 with internationally recognizable graphics displayed on the screen for easy and efficient control
- Laser Guard System to ensure underground personnel and other vehicles are kept safely away from the area of Teleremote operation.





Discover more: rct-global.com

sales@rct-global.com

AUSTRALIA:	+61 8 9353 6577
AFRICA:	+27 83 292 4246
CANADA:	+1 705 590 4001
RUSSIA / CIS:	+7 (910) 411 11-74
SOUTH AMERICA:	+56 9 8731 9925
USA:	+1 801 938 9214

