



PLATON NEO

IP-pan/tilt head made of stainless steel

SNK PLATON NEO

Funkwerk is pleased to offer the SNK Platon NEO, a premium class pan/tilt head.

The innovative IP-pan/tilt head is ideally suited for integrating analogue or digital cameras and offers enough room for lenses with long focal lengths in its double-walled stainless steel case.

The SNK PLATON NEO is the ideal pan/tilt head for

traffic solutions or surveillance of large areas in extreme weather conditions due to its high precision engineering and large selection of accessories like differently sized cases or screen wipers.

The SNK PLATON NEO - a future-proof investment thanks to state-of-the-art technology.

Highlights:

- Fully rotatable IP-pan/tilt head for optimal integration in video management and fine-tuned detection systems
- Internal architecture allows a large selection of compatible cameras (analogue, IP, HD-SDI) and large focal length lenses
- Suited for up to two camera housings or spotlights (subsequent expansion possible)
- Modular structure allows later adaption to changed customer requirements and new technologies
- Ideally suited for operation in extreme weather conditions due to double-walled stainless steel housing
- Optimal camera control thanks to zoomdependent pan/tilt rotation speeds
- Innovative screen wiper design for clear and scratchless views and reduced maintenance costs
- Universal mounting options (suspended or standing)
- Increasing number of accessories like different sized housings or spotlights
- Smooth replacement and easy expansion of existing PLATON systems
- Optimized for long distance surveillance, for example traffic and industry solutions or border protection

Product variants & application fields

SNK PLATON NEO - Traffic



Application areas

- Monitoring authorised use of the hard shoulder
- Traffic analysis (jams, wrong-way drivers, etc.)
- Tunnel and bridge monitoring
- Surveillance of construction sites
- Incident-Management (e.g. with traffic accidents)

Product advantages

- Interaction with external detection systems or analysis tools
- Homogeneous, smooth tracking of traffic lanes
- Precise control/tracking of objects or positions
- Flexible monitoring of traffic lanes in or against the direction of travel
- High resistance to corrosion despite exhaust gases and road salt
- Residue-free, non-abrasive cleaning of housing screen
- Robust, minimum maintenance required
- Universal installation options (pole, suspended, free-standing, tunnels, bridges)

Product features / configuration

- Cobweb remover and panel wiper with antifreeze feature
- IR spotlight
- Compact 400mm housing (for tunnels) or 560mm housing

SNK PLATON NEO - Industry



Application areas

- Air- and seaports
- Industrial and company premises
- Perimeter protection
- Process monitoring
- Public utilities (energy, landfills, etc.)

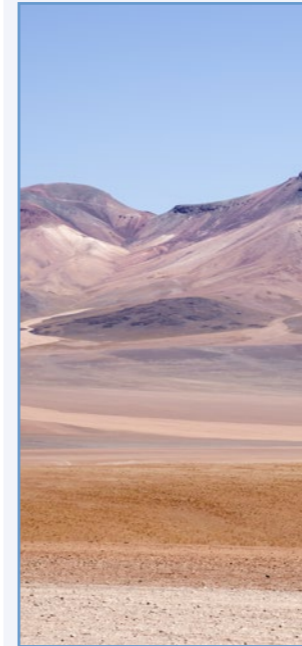
Product advantages

- Precise and smooth control/tracking of both very fast and very slow objects (e.g. incoming aircraft, vehicles)
- Monitoring of ground and airborne objects
- High resistance to corrosion despite exhaust gases, road salt or antifreeze chemicals
- Universal installation options (pole, suspended, free-standing)
- Residue-free, non-abrasive cleaning of housing screen
- Interaction with external detection systems (e.g. early-warning fire alarm, fence detection, barriers)

Product features / configuration

- Cobweb remover and panel wiper with antifreeze feature
- Laser or IR spotlight
- Large housing for lenses with large focal widths
- Second housing for additional camera (e.g. thermographic camera) or additional sensors
- High-resolution camera

SNK PLATON NEO - Desert Guard



Application areas

- Border control
- Protection of oil fields, refineries and pipelines
- Protection military bases
- Perimeter protection
- Surveillance national parks
- Self-sustaining monitoring station

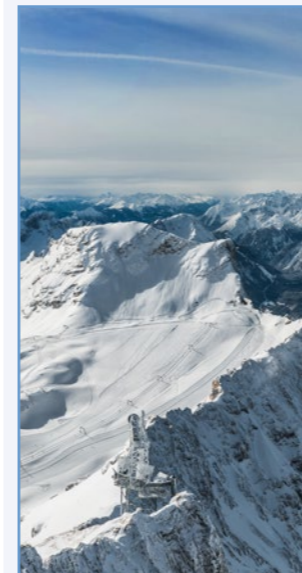
Product advantages

- Interaction with external detection systems (e.g. thermal/optic video analysis or radar systems)
- Precise control/tracking of objects or positions at large distances (up to 20 km)
- High resistance to heat and dust clouds
- Residue-free, non-abrasive cleaning of housing screen
- Robust, minimum maintenance required
- Possibility of installing a second camera housing and simultaneously control and view of both video images (e.g. parallel zoom)

Product features / configuration

- Cobweb remover and panel wiper
- Large housing for lenses with large focal lengths
- Additional housing / installation option for thermographic cameras, radio relay systems or radar systems
- High-resolution camera

SNK PLATON NEO - Arctic



Application areas

- Monitoring of ski slopes/loipes
- Remote panoramic view
- Winter sports facilities (e.g. bob sleigh tracks)
- Incident management in the event of skiing accidents, or searching for missing people after avalanches
- Early identification of risks (e.g. avalanche or severe weather warning)

Product advantages

- Slowly and softly movement along preconfigured routes
- Wide range of compatible cameras (analog, IP, HD-SDI) in TV quality
- Precise control/tracking of objects/positions at large distances (up to 20 km)
- High resistance to cold and residue-free, non-abrasive cleaning of housing screens
- Screen wiper with freeze protection

Product features / configuration

- Cobweb remover and panel wiper with antifreeze feature
- Heating with broad temperature range
- Large housing for lenses with large focal widths
- Second housing for additional camera or additional sensors
- High-resolution camera

SNK PLATON NEO - Optional screen wiper



The PLATON NEO from Funkwerk has an innovative and extreme rugged screen wiper design for an optimal cleaning of the housing screen. In contrast to common screen wipers, the PLATON NEO has a screen wiper which follows the circulation principle. That means the wiper navigates with continuous pressure only in top down direction over the screen and guarantees a clear and scratchless view.

Deactivated, the screen wiper stays in a parking position. This avoids the deformation of the rubber blade as well as the freezing of the wiper on the housing screen.

SNK PLATON NEO - Optional second camera housing



The PLATON NEO from Funkwerk exists in two versions.

While the standard version allows the installation of only one camera housing, the expanded version of PLATON NEO provides the opportunity to equip the pan/tilt head at the beginning or subsequent with a second peripheral component. This allows e.g. the mounting of a second housing for thermal imaging cameras, spotlights or other sensors.

Technical data	PLATON NEO (1 housing)	PLATON NEO 2WA (2 housings)
Kinematic data		
Speed [°/s]		
Pan:	0,001 – 200	0,001 – 180
Tilt:	0,001 – 100	0,001 – 90
Acceleration [°/s²]		
Pan:	100 – 800	100 – 600
Tilt:	100 – 800	100 – 600
Rotation angle		
Pan:	unlimited (continuous panning without end position limit)	
Tilt:	± 90° with flip function	
Manual control		
Speed levels:	128	
Control characteristics:	4 different speed scales from linear to logarithmic	
Max./min. speed:	independent configuration for P/T	
Acceleration:	independent configuration for P/T	
Positioning		
Position resolution SW regulated:	Pan ± 0,00433°, Tilt ± 0,00234°	
Fixed positions:	256 (pan-, tilt-, zoom- und focus positions)	
Special features:	variable speed profile (reduction of pole oscillation), linear motion	
Vector control		
Vector positioning:	16 Bit (P, T, Z, F)	
Vector control (continuous):	16 Bit (P, T, Z, F)	
Vector response:	16 Bit (P, T, Z, F)	
Special features:	linear motion / variable speed profiles (soft focus) / zoom and focus tracing regulated by the width of the visual field and object distance	
Tours		
Number:	4 separate tours (trajectories P/T/Z/F) without time limit	
Interfaces		
Video:	Ethernet, FBAS / optional HD-SDI (upon request Y/C / RGB / YUV / twisted pair)	
Data:	Ethernet 10/100 Base-T / RS232/RS422/RS485 bidirectional, communication parameters configurable	
I/O-Data:	14 configurable galvanically isolated in- /outputs	
Power supply ext.:	12 V DC / 1 A for external sensors	
Power supply DC:	12 V DC / 4 A for camera and optional applications	
Camera parameterisation:	RS232 / RS422 / RS485 / IP	
Power specifications		
Power consumption:	max. 200 W	
Power supply:	230 V AC ± 10 % 50/60 Hz / 115 V AC ± 10 % 50/60 Hz	
General Data (pan/til head)		
Material:	stainless steel 1.4571 / ceramic-blasted	
Dimensions	height approx. 478mm, diameter approx. 160mm	
Ultimate load:	max. 30 kg	max. 2 x 20 kg
Weight:	15,4 kg	
Mounting:	suspended or standing	
Attachable to:	pole top / pole-side / wall / wall corner / ceiling / bridge / tunnel ceiling	
Protection category:	IP 66	
Temperature range:	-30 up to +55 °C	
Camera protective housing:	double-walled	
Suitable camera housings:	HSM 400 NEO, HSM 560 NEO	HSM 560 NEO
Housing HSM 400 NEO with front module		
Weight:	10,5 kg	
Dimensions (lxwxh in mm):	502 x 172 x 187	
Housing HSM 560 NEO with front module		
Weight:	12,8 kg	
Dimensions (lxwxh in mm):	662 x 172 x 187	
Screen wiper		
Wiper function principle:	circulating	
Number of wipe cycles:	configurable	
Wiper activation:	manual or automatic	
Cleaning procedure:	fully automatic	
Stand-by position wiper blade:	contact-free under cover plate, weather and freeze proof	
Surface / Colour:	stainless steel blasted	
Material:	stainless steel 1.4571	
Cobweb remover:	2 brushes, simultaneous with screen wiper	

Funkwerk video systeme GmbH

Thomas-Mann-Str. 50 | D-90471 Nürnberg
Tel.: +49 (0) 911/75884-0 | Fax: +49 (0) 911/75884-100
info@funkwerk-vs.com | www.funkwerk-vs.com

