

A low-angle photograph of a telecommunication tower against a bright blue sky with scattered white clouds. The tower is equipped with several white, rectangular antennas and a circular satellite dish. The antennas are mounted on metal poles and are connected by various cables and brackets. The perspective is looking up, emphasizing the height of the tower.

Raycap

Products & Solutions
for Telecommunication
Applications

About Raycap

Raycap is a privately held technology solutions provider that offers products and services that protect, connect and conceal mission-critical equipment in telecommunications, power generation, transportation and other industrial applications.

Since 1987, Raycap has built a global organization with offices and manufacturing facilities in Europe and North America. The company combines advanced technology, excellent product design, system integration and manufacturing capacity with a deep understanding of the needs of its customers to provide technological solutions for mission-critical applications.

The product offering also includes technical services such as custom product design, customer training, and more. The company's comprehensive understanding of the needs of its customers and the industries in which they operate is critical to its ability to provide solutions that incorporate the latest technologies and the highest levels of customer satisfaction. As a result, more than half of Raycap's products are custom made and tailored to customer specifications.

Raycap products marketed under these brands are tried and tested in the industry:

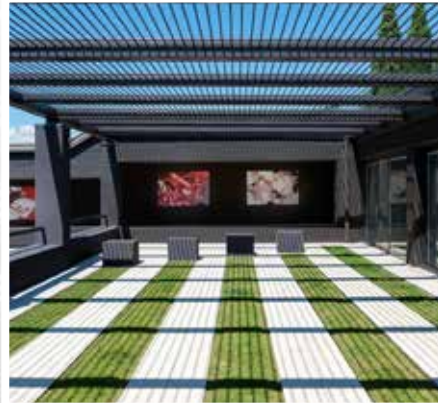
Strikesorb[®]

Rayvoss[®]

InvisiWave[®]
5G-READY SOLUTION

Business fields in the telecommunications sector

- Products and enclosures for copper and fiber optic access networks (FTTC)
- Distribution cabinets for fiber to the home networks (FTTH)
- Passive infrastructure for mobile radio sites - fiber/ power to the antenna (FTTA/ PTTA)
- Street furniture for small-cell sites and e-mobility
- 5G ready concealment for antenna systems
- Lightning / surge protection and power supplies (OVP & PSU)



Housings for Active Transmission Technology in the Access Network (FTTC)

When existing copper cable structures are used for broadband network expansion, VDSL or Supervectoring technology is predominantly used. Raycap's multifunctional cabinets designed for this purpose are innovative and customizable. The double-walled metal housings offer the highest quality operational reliability, and provide the ideal housing solution for active transmission technology, copper and fiber optic cabling, power supply, and surge protection.



Raycap offers customized enclosures

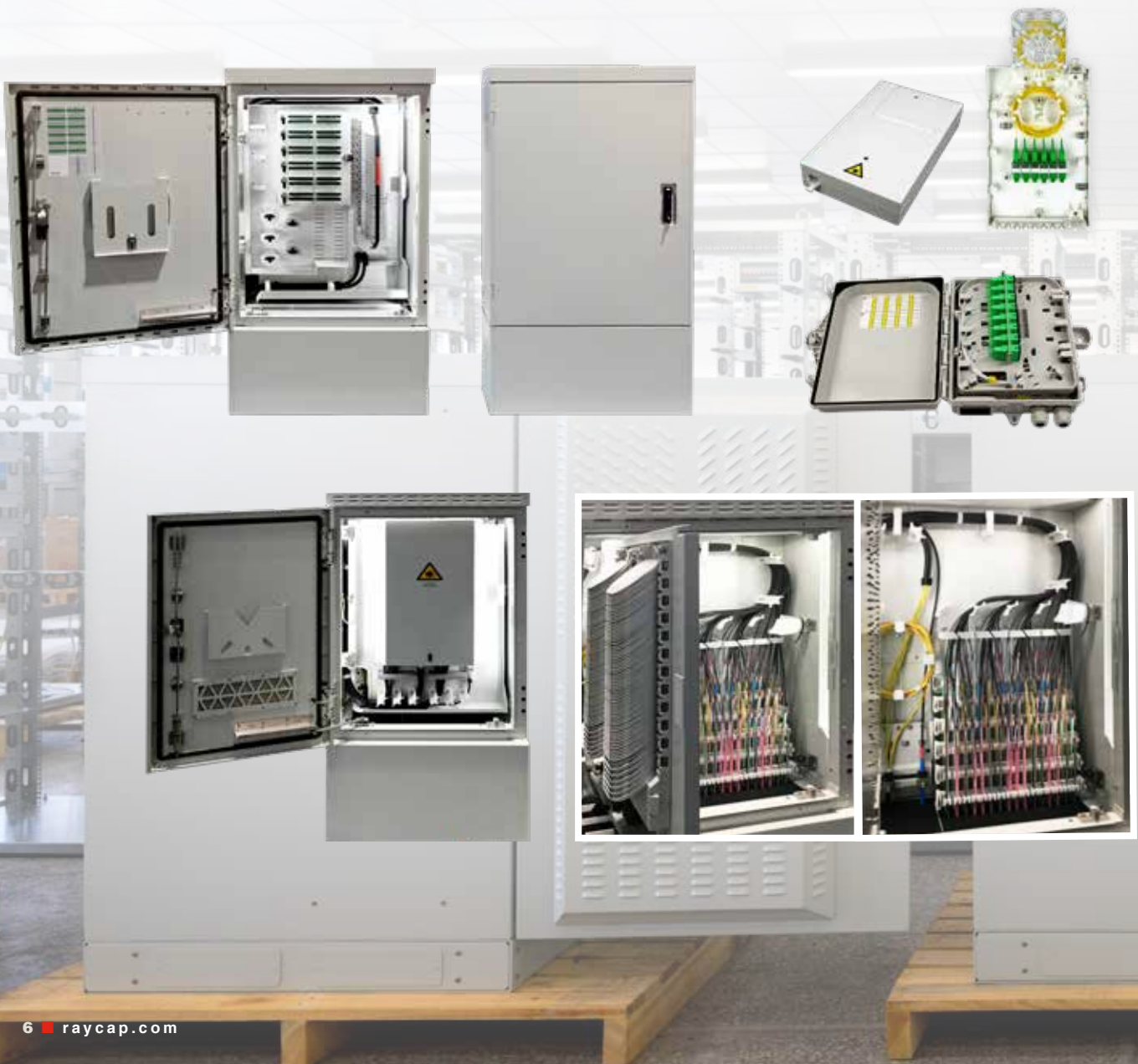
- Double-walled, environmentally friendly cabinets, recyclable metal housing, robust protection against vandalism and environmental influences; resistance class RC2
- Housing shapes and dimensions in different versions
- Trouble-free maintenance (replacement of all housing parts without interruption of operation)
- Various locking systems
- Excellent passive heat dissipation properties
- Various air conditioning solutions
- Customer-specific pre-assembly



Distribution Housings for Fiber to the Home Networks (FTTH)

The need for bandwidth and higher transmission speeds is increasing all the time. The use of fiber optic cables in the access network is the logical consequence of this, and is already being implemented by many network operators. Raycap offers various products developed with high reliability, quick and easy installation and protection against unauthorized access in mind.

The purely passive network distributor products are based on the robust and secure designs of the multifunction cabinets, but are specially modified for FTTH expansion. The FTTH product portfolio is completed by a multitude of customer connection housings, distribution boxes and fiber optic distribution systems.





Housing for active transmission technology in the access network (FTTC)

- In the German market, these cabinets are suitable for use in the Federal Ministry of Transport and Digital Infrastructure (BMVI) funding areas, and Gigabit Passive Optical Networks (GPON) in the telecom industry
- Single-walled, robust metal design protects against unauthorized access and vandalism
- Available in various shapes, dimensions and versions
- Trouble-free maintenance (replacement of all housing parts without interruption of operation)
- Passive climate compensation complies with condensation water tests according to DIN
- Cassette system with single and multiple fiber management
- Customer-specific pre-assembly versions
- Various locking systems
- Excellent passive heat dissipation properties
- Various air conditioning solutions
- Customer-specific pre-assembly



Passive Infrastructure – Fiber/Power to the Antenna (FTTA / PTTA)

Raycap is a leading developer and manufacturer of future-proof FTTA and PTTA cabling systems. The company's extensive product portfolio offers an optimal connectivity solution for every antenna location.

Specializing in the development of outdoor enclosures and connection technology for fiber optic and power connections, Raycap has already equipped more than 400,000 mobile antenna locations with FTTA and PTTA products. All products are expertly designed with present and future mobility standards in mind, and provide optional surge protection featuring Raycap's Strikersorb technology.



Raycap's FTTA & PTTA product portfolio includes all components necessary for a future-proof antenna infrastructure

- 5G ready
- Fiber optic, power and hybrid cabling systems
- FTTA & PTTA outdoor enclosure series
- FTTA & PTTA indoor and outdoor connectivity solutions
- Lightning and surge protection systems
- Easy to install
- Practical, flexible designs
- Modular cabling extensions



Street Furniture for Small Cells & e-Mobility

For active radio technology (antennas and radios) to gain acceptance among a diverse population, proper aesthetics are a critical factor. The development of products suited to and in harmony with specific environments is required in order to pass stringent rules put into place by local municipalities. Any new buildouts of small cell 5G network infrastructure should be inconspicuous, going unnoticed wherever possible.



Street furniture by Raycap combines both form and function

- Aesthetic, tailor-made housing designs for small-cell sites
- Integrates into existing infrastructure (street furniture, light posts, etc.)
- HF-optimized for LTE/ 5G frequency bands
- Plug & play solutions
- Customer-specific adaptations
- Support carrier independent radios



Concealment Solutions for Antenna Systems

InvisiWave®
5G-READY SOLUTION

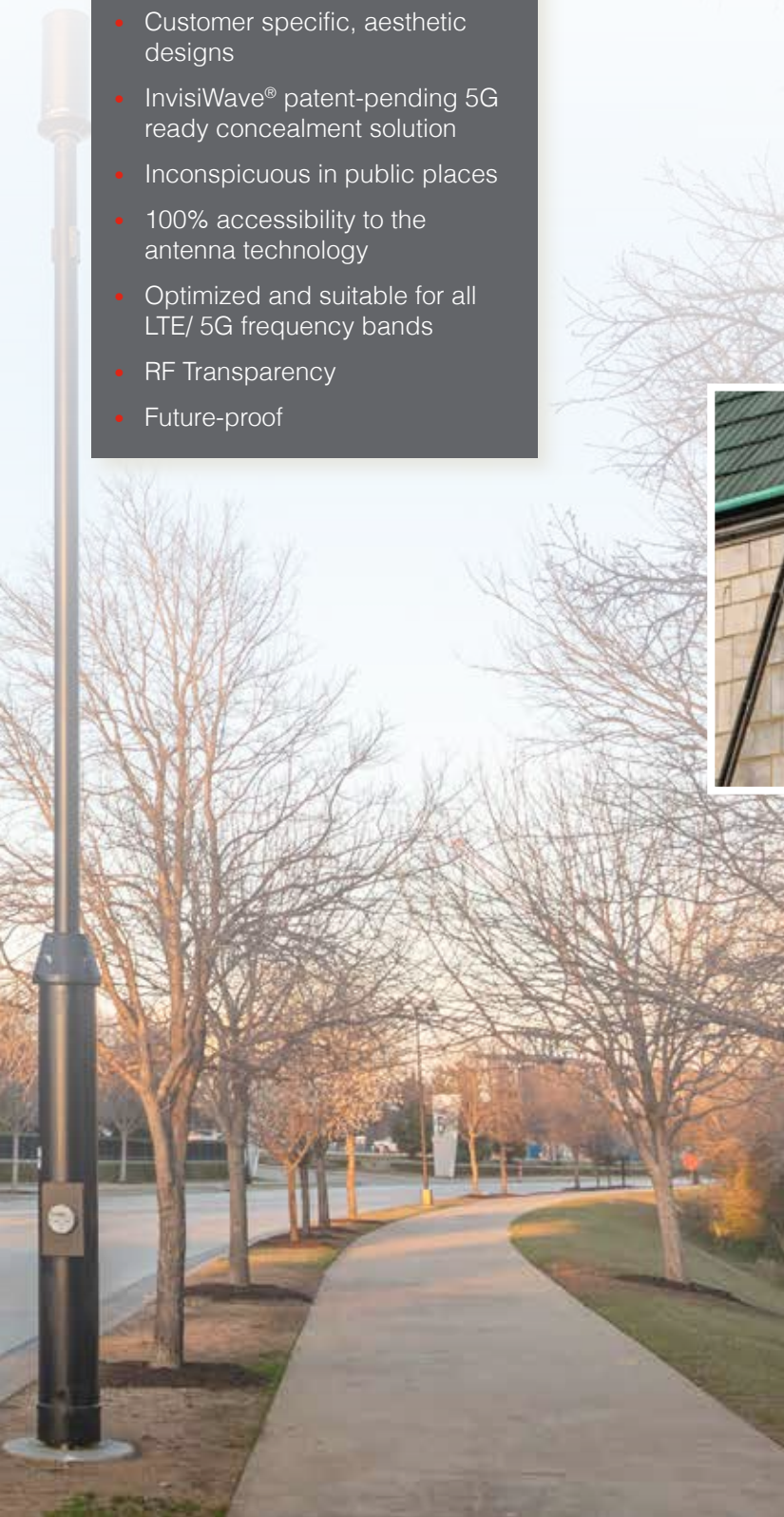


As communications systems multiply, more and more antenna construction can be expected in cities and communities. This can be particularly disturbing in historic old towns where aesthetic considerations will often take precedent over desire for cell phone coverage. Raycap develops tailor-made concealment solutions that are aesthetically pleasing and optimized for use with LTE/5G frequency bands. With Raycap's solutions, network operators are in a position to offer network coverage that meets the requirements of end users without disturbing the appearance of cities and communities.



Raycap provides all types of mobile antenna concealment solutions

- Customer specific, aesthetic designs
- InvisiWave® patent-pending 5G ready concealment solution
- Inconspicuous in public places
- 100% accessibility to the antenna technology
- Optimized and suitable for all LTE/ 5G frequency bands
- RF Transparency
- Future-proof



Lightning / Overvoltage Protection (OVP) & Power Supplies (PSU)

Without communication systems, our productivity would suffer and our everyday lives would come to a near standstill. To ensure overall security and seamless operation of these systems requires solutions that can provide the highest reliability.

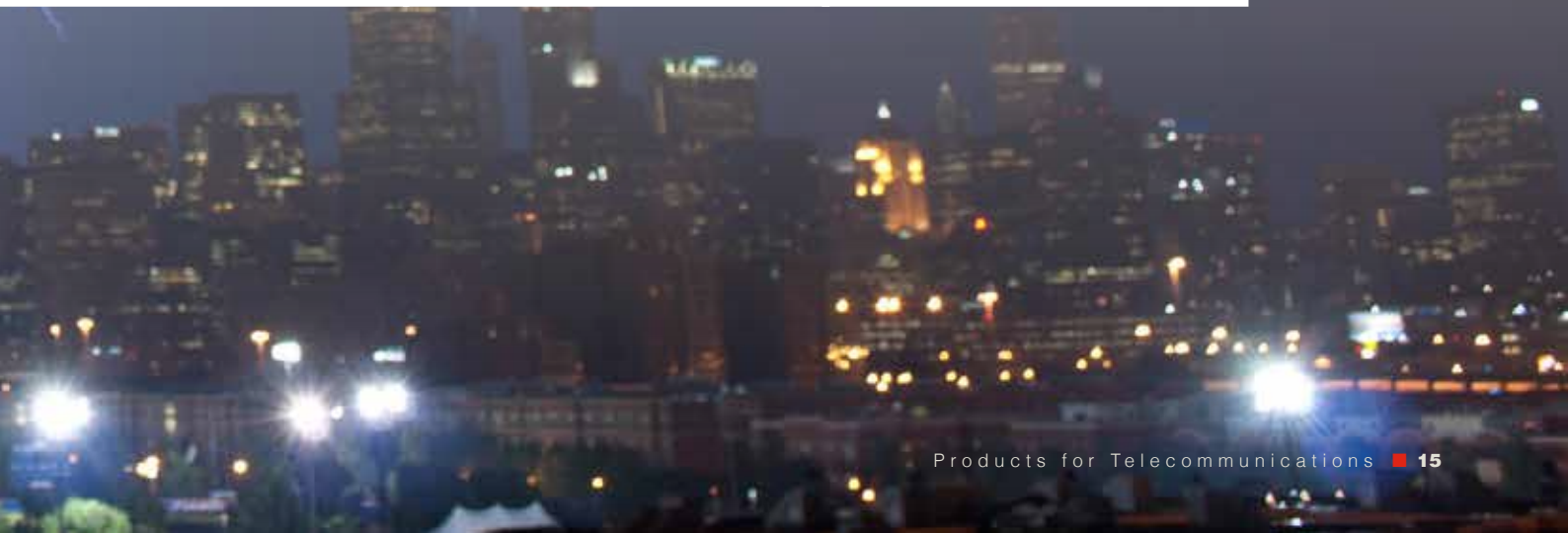
Raycap is an industry leader in developing industrial surge protection solutions that ensure that critical systems do not experience downtime due to lightning discharges or other surge conditions. The innovative Strikesorb® technology is specifically designed to protect components from lightning strikes, and has been developed and tested for use in both AC and DC applications.

Raycap's outdoor and indoor enclosures are designed for use in mobile and broadband applications and can accommodate active equipment, power supplies, battery banks and distribution systems.



Raycap offers the appropriate overvoltage protection for various applications, as well as suitable power supplies

- Strikesorb technology improves availability of the system to be protected
- Power distribution/power supplies (PSU) can be pre-installed
- Indoor and outdoor configurations available
- Optional, tailor-made additional variants are offered such as thermal and acoustic management, air conditioning, customized locking systems, antivandalism systems, various sensor systems



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