

BROADCAST ANTENNAS AND COMBINERS

KATHREIN
SCALA DIVISION

FOR FM, TV, DAB AND DVB
COMPONENTS, ENGINEERING AND TURNKEY PROJECTS



KATHREIN

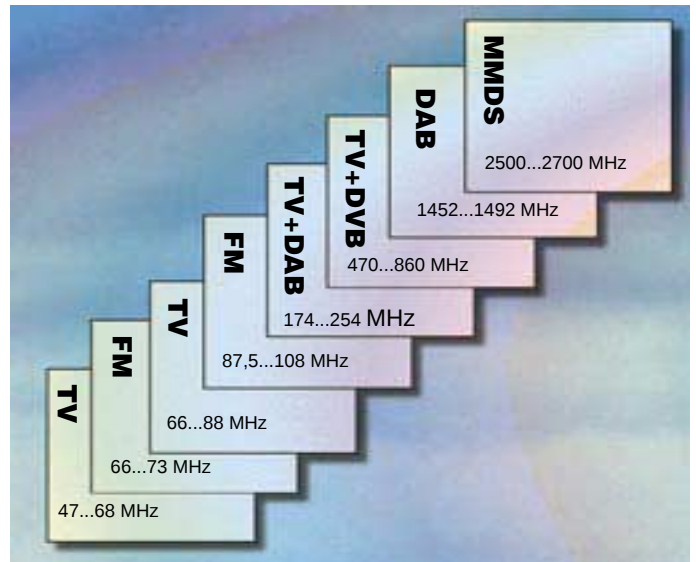
Antennen · Electronic

Wide Range of Components for FM, TV, MMDS, DAB and DVB

Kathrein offers a wide variety of top quality products for almost every kind of broadcast transmitting system.

Various components are available for all frequency ranges and transmitter powers from 100 W to 200 kW.

Customers using Kathrein components will benefit from a long period of trouble-free operation without the need for maintenance.



Antenna Components

- Robust design for operation under all environmental conditions
- Feed points fully weather protected
- Horizontal, vertical or dual polarized
- Full band operation
- Low return loss
- All IEC (DIN and EIA) connectors available



Panel Antennas

- Especially suitable as components in arrays for achieving a variety of radiation patterns
- Minimum influence of tower structure on pattern

Yagi Antennas

- Lightweight
- For professional receiving and low power transmitting applications

Log Periodic Antennas

- For harsh environmental conditions, particularly under ice formation
- High side-lobe suppression
- Especially suitable as receiving antenna for transposer stations

Superturnstile Antennas

- Superior omnidirectional radiation pattern
- Suitable for top mounting

Power Splitters

- 2 - 8 outputs
- Power range from 100 W to 100 kW
- Full band operation
- Equal or unequal power splitting
- All IEC (DIN and EIA) connectors available
- Tuning section for impedance optimization available on request



Filters and Combiners

- Band-pass filters
- Band-stop filters
- Starpoint combiners
- Directional filter combiners
- 3-dB directional couplers
- Low insertion loss
- High isolation
- Low VSWR
- Power range from 10 W to 200 kW

Custom-designed Antennas and Systems



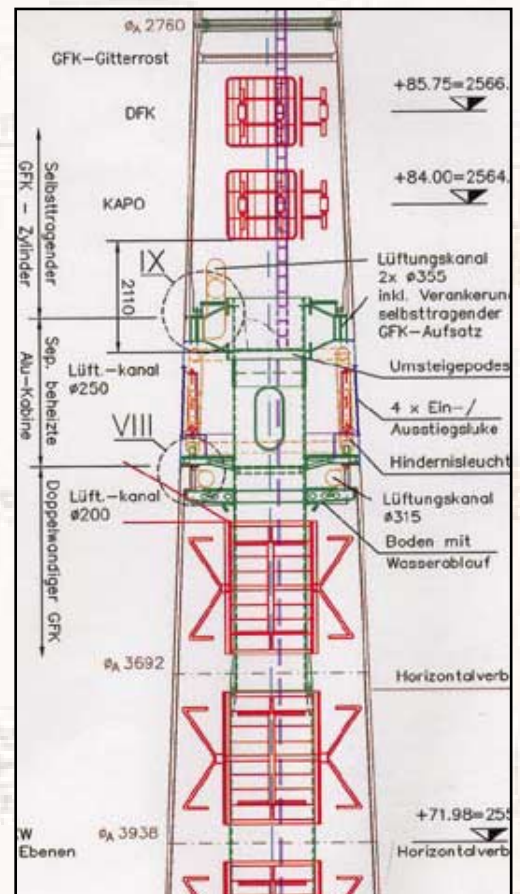
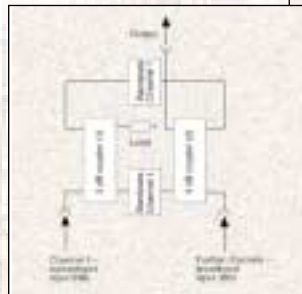
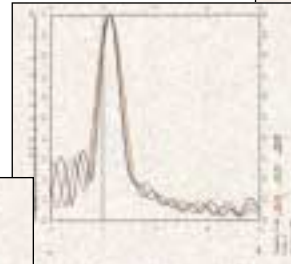
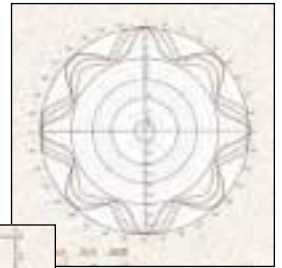
- Special components, e. g. extended frequency range or power rating
- Complete packages for "on-site installation"
- Pre-installed antenna systems delivered ex factory



Engineering

Design and optimization of antenna systems using special software and test equipment

- Project studies
- Optimization of H.R.P.
- Optimization of V.R.P.
- Electrical and mechanical design
- Selection of proper feed system
- Studies on power handling
- Optimization of system VSWR
- Gain and ERP calculations



Turnkey Projects

Transmitting Systems consisting of:

- Antenna systems
- Feeder cables
- Combiners
- Patch panels
- Fibre-glass masts and radomes
- Special UHF steel masts
- Mounting hardware
- Test sections (measuring link)
- Pressurization equipment
- Monitoring devices



Services

- Site survey
- Factory tests
- Installation
- Site tests and commissioning



References - Major Customers World-wide

KATHREIN
SCALA DIVISION

Austria ORF	Belgium RTBF, BRT	Bulgaria PTT, Bulg. Telekom
Canada CBC	China Broadc. TV Bureau	Czech Republic Ceske Radiokomunikace
Denmark Tele Danmark	Egypt ERTU	Finland Yleisradio
France TDF	Germany DTAG, all Regional Broadcasters	Hungary Antenna Hungaria
Ireland RTE	Islamic Rep. of Iran I.R.I.B.	Italy RAI, RAS
Lebanon MTV, CLT	Malaysia RTM, TV3	Namibia NBC
Netherlands Nozema	Norway Norkring	Poland Telekomunikacja Polska S.A.
Portugal RTP	Romania R.A. Radiocomunicatii	Slovakia Slovak Telekom
South Africa Sentech	Sri Lanka SLBC, MBC, MTV	Sweden Teracom
Switzerland Swisscom	Thailand PRD, MOT, BEC, RTA, ITV	Turkey PTT, TRT, NTV, ATV, Show TV
United Kingdom NTL, CTI	USA Private Broadcasters	Vietnam VTV, VOV

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