

Sender	Typ	HF-Frequenz	Symbolrate	Modulation
a.tv HD	TV	114 MHz	6900 kSym/s	256 QAM
Franken Plus HD	TV	114 MHz	6900 kSym/s	256 QAM
Lokal-TV-Portal HD	TV	114 MHz	6900 kSym/s	256 QAM
münchen.tv HD	TV	114 MHz	6900 kSym/s	256 QAM
NIEDERBAYERN TV HD	TV	114 MHz	6900 kSym/s	256 QAM
OTVA HD	TV	114 MHz	6900 kSym/s	256 QAM
rfo Regional Fernsehen Oberbayern HD	TV	114 MHz	6900 kSym/s	256 QAM
tv.ingolstadt HD	TV	114 MHz	6900 kSym/s	256 QAM
BR Fernsehen Nord HD	TV	130 MHz	6900 kSym/s	256 QAM
BR Fernsehen Süd HD	TV	130 MHz	6900 kSym/s	256 QAM
NDR FS HH HD	TV	130 MHz	6900 kSym/s	256 QAM
NDR FS MV HD	TV	130 MHz	6900 kSym/s	256 QAM
NDR FS NDS HD	TV	130 MHz	6900 kSym/s	256 QAM
NDR FS SH HD	TV	130 MHz	6900 kSym/s	256 QAM
PHOENIX HD	TV	130 MHz	6900 kSym/s	256 QAM
1-2-3.tv HD	TV	146 MHz	6900 kSym/s	256 QAM
HSE24 Extra HD	TV	146 MHz	6900 kSym/s	256 QAM
QVC2 HD	TV	146 MHz	6900 kSym/s	256 QAM
ZDF HD	TV	154 MHz	6900 kSym/s	256 QAM
zdf_neo HD	TV	154 MHz	6900 kSym/s	256 QAM
NITRO	TV	162 MHz	6900 kSym/s	256 QAM
n-tv	TV	162 MHz	6900 kSym/s	256 QAM
RTL Bayern	TV	162 MHz	6900 kSym/s	256 QAM
RTL HB NDS	TV	162 MHz	6900 kSym/s	256 QAM
RTL HH SH	TV	162 MHz	6900 kSym/s	256 QAM
RTL Regional NRW	TV	162 MHz	6900 kSym/s	256 QAM
RTL Television	TV	162 MHz	6900 kSym/s	256 QAM
RTL2	TV	162 MHz	6900 kSym/s	256 QAM
RTLup	TV	162 MHz	6900 kSym/s	256 QAM
SUPER RTL	TV	162 MHz	6900 kSym/s	256 QAM
TOGGO plus	TV	162 MHz	6900 kSym/s	256 QAM
Toggo Radio	Radio	162 MHz	6900 kSym/s	256 QAM
VOX	TV	162 MHz	6900 kSym/s	256 QAM
WDR HD Bielefeld	TV	170 MHz	6900 kSym/s	256 QAM
WDR HD Dortmund	TV	170 MHz	6900 kSym/s	256 QAM
WDR HD Düsseldorf	TV	170 MHz	6900 kSym/s	256 QAM
WDR HD Essen	TV	170 MHz	6900 kSym/s	256 QAM
WDR HD Köln	TV	170 MHz	6900 kSym/s	256 QAM
WDR HD Münster	TV	170 MHz	6900 kSym/s	256 QAM
WDR HD Siegen	TV	170 MHz	6900 kSym/s	256 QAM
Eurosport 1 Deutschland	TV	178 MHz	6900 kSym/s	256 QAM
HSE24 EXTRA	TV	178 MHz	6900 kSym/s	256 QAM
RTL Austria	TV	178 MHz	6900 kSym/s	256 QAM
RTL2 Austria	TV	178 MHz	6900 kSym/s	256 QAM
SUPER RTL A	TV	178 MHz	6900 kSym/s	256 QAM

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VOX Austria	TV	178 MHz	6900 kSym/s	256 QAM
VOXup	TV	178 MHz	6900 kSym/s	256 QAM
3sat	TV	194 MHz	6900 kSym/s	256 QAM
Dlf	Radio	194 MHz	6900 kSym/s	256 QAM
Dlf Kultur	Radio	194 MHz	6900 kSym/s	256 QAM
Dlf Nova	Radio	194 MHz	6900 kSym/s	256 QAM
Dradio DokDeb	Radio	194 MHz	6900 kSym/s	256 QAM
KIKA	TV	194 MHz	6900 kSym/s	256 QAM
ZDF	TV	194 MHz	6900 kSym/s	256 QAM
zdf_neo	TV	194 MHz	6900 kSym/s	256 QAM
ZDFinfo	TV	194 MHz	6900 kSym/s	256 QAM
ComedyCentral	TV	202 MHz	6900 kSym/s	256 QAM
MTV	TV	202 MHz	6900 kSym/s	256 QAM
Nick/ComedyCentral +1	TV	202 MHz	6900 kSym/s	256 QAM
Juwelo HD	TV	202 MHz	6900 kSym/s	256 QAM
pearl.tv HD Shop	TV	202 MHz	6900 kSym/s	256 QAM
sonnenklar.TV HD	TV	202 MHz	6900 kSym/s	256 QAM
ANIXE HD	TV	210 MHz	6900 kSym/s	256 QAM
Genius Plus	TV	210 MHz	6900 kSym/s	256 QAM
HSE HD	TV	210 MHz	6900 kSym/s	256 QAM
QVC HD	TV	210 MHz	6900 kSym/s	256 QAM
Shop LC HD	TV	210 MHz	6900 kSym/s	256 QAM
HGTV	TV	210 MHz	6900 kSym/s	256 QAM
kabel eins	TV	226 MHz	6900 kSym/s	256 QAM
SIXX	TV	226 MHz	6900 kSym/s	256 QAM
kabel eins Doku	TV	226 MHz	6900 kSym/s	256 QAM
Pro7 MAXX	TV	226 MHz	6900 kSym/s	256 QAM
Prosieben	TV	226 MHz	6900 kSym/s	256 QAM
SAT.1	TV	226 MHz	6900 kSym/s	256 QAM
SAT.1 Bayern	TV	226 MHz	6900 kSym/s	256 QAM
SAT.1 Gold	TV	226 MHz	6900 kSym/s	256 QAM
SAT.1 NRW	TV	226 MHz	6900 kSym/s	256 QAM
WELT	TV	226 MHz	6900 kSym/s	256 QAM
Bibel TV	TV	226 MHz	6900 kSym/s	256 QAM
QVC 2	TV	226 MHz	6900 kSym/s	256 QAM
QVC Deutschland	TV	226 MHz	6900 kSym/s	256 QAM
SBN International	TV	226 MHz	6900 kSym/s	256 QAM
ffn	Radio	234 MHz	6900 kSym/s	256 QAM
JuweloTV	TV	234 MHz	6900 kSym/s	256 QAM
Radio Gloria	Radio	234 MHz	6900 kSym/s	256 QAM
Radio HBR	Radio	234 MHz	6900 kSym/s	256 QAM
Radio HCJB	Radio	234 MHz	6900 kSym/s	256 QAM
Radio Paloma	Radio	234 MHz	6900 kSym/s	256 QAM
Bloomberg Europe TV	TV	242 MHz	6900 kSym/s	256 QAM
CNN Int.	TV	242 MHz	6900 kSym/s	256 QAM
ANTENNE BAYERN	Radio	242 MHz	6900 kSym/s	256 QAM
Channel21	TV	242 MHz	6900 kSym/s	256 QAM
NICK/ComedyCentral AT	TV	242 MHz	6900 kSym/s	256 QAM
DELUXE MUSIC	TV	242 MHz	6900 kSym/s	256 QAM
DMAX Austria	TV	242 MHz	6900 kSym/s	256 QAM
OLDIE ANTENNE	Radio	242 MHz	6900 kSym/s	256 QAM
Immer etwas Neues TV	TV	242 MHz	6900 kSym/s	256 QAM

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MediaShop- Meine Einkaufswelt	TV	242 MHz	6900 kSym/s	256 QAM
ROCK ANTENNE	Radio	242 MHz	6900 kSym/s	256 QAM
sunshine live	Radio	242 MHz	6900 kSym/s	256 QAM
AstroTV	TV	250 MHz	6900 kSym/s	256 QAM
DMAX	TV	250 MHz	6900 kSym/s	256 QAM
HSE24	TV	250 MHz	6900 kSym/s	256 QAM
HSE24 TREND	TV	250 MHz	6900 kSym/s	256 QAM
MediaShop- Neuheiten	TV	250 MHz	6900 kSym/s	256 QAM
meinTVshop	TV	250 MHz	6900 kSym/s	256 QAM
REGIO TV	TV	250 MHz	6900 kSym/s	256 QAM
Sonnenklar TV	TV	250 MHz	6900 kSym/s	256 QAM
SPORT1	TV	250 MHz	6900 kSym/s	256 QAM
TELE 5	TV	250 MHz	6900 kSym/s	256 QAM
arte HD	TV	258 MHz	6900 kSym/s	256 QAM
Das Erste HD	TV	258 MHz	6900 kSym/s	256 QAM
SWR BW HD	TV	258 MHz	6900 kSym/s	256 QAM
SWR RP HD	TV	258 MHz	6900 kSym/s	256 QAM
hr-fernsehen HD	TV	266 MHz	6900 kSym/s	256 QAM
MDR Sachsen HD	TV	266 MHz	6900 kSym/s	256 QAM
MDR S-Anhalt HD	TV	266 MHz	6900 kSym/s	256 QAM
MDR Thüringen HD	TV	266 MHz	6900 kSym/s	256 QAM
rbb Berlin HD	TV	266 MHz	6900 kSym/s	256 QAM
rbb Brandenburg HD	TV	266 MHz	6900 kSym/s	256 QAM
Antenne Brbg.	Radio	266 MHz	6900 kSym/s	256 QAM
Fritz	Radio	266 MHz	6900 kSym/s	256 QAM
hr1	Radio	266 MHz	6900 kSym/s	256 QAM
hr2	Radio	266 MHz	6900 kSym/s	256 QAM
hr3	Radio	266 MHz	6900 kSym/s	256 QAM
hr4	Radio	266 MHz	6900 kSym/s	256 QAM
hr-INFO	Radio	266 MHz	6900 kSym/s	256 QAM
MDR AKTUELL	Radio	266 MHz	6900 kSym/s	256 QAM
MDR JUMP	Radio	266 MHz	6900 kSym/s	256 QAM
MDR KLASSIK	Radio	266 MHz	6900 kSym/s	256 QAM
MDR KULTUR	Radio	266 MHz	6900 kSym/s	256 QAM
MDR SACHSEN DD	Radio	266 MHz	6900 kSym/s	256 QAM
MDR S-ANHALT MD	Radio	266 MHz	6900 kSym/s	256 QAM
MDR SPUTNIK	Radio	266 MHz	6900 kSym/s	256 QAM
MDR THÜR Mitte-W	Radio	266 MHz	6900 kSym/s	256 QAM
radio3	Radio	266 MHz	6900 kSym/s	256 QAM
radioeins	Radio	266 MHz	6900 kSym/s	256 QAM
rbb 88.8	Radio	266 MHz	6900 kSym/s	256 QAM
YOU FM	Radio	266 MHz	6900 kSym/s	256 QAM
rbb24 Inforadio	Radio	266 MHz	6900 kSym/s	256 QAM
3sat HD	TV	274 MHz	6900 kSym/s	256 QAM
KiKA HD	TV	274 MHz	6900 kSym/s	256 QAM
ZDFinfo HD	TV	274 MHz	6900 kSym/s	256 QAM
ARD-alpha HD	TV	282 MHz	6900 kSym/s	256 QAM
ONE HD	TV	282 MHz	6900 kSym/s	256 QAM
tagesschau24 HD	TV	282 MHz	6900 kSym/s	256 QAM
1LIVE	Radio	282 MHz	6900 kSym/s	256 QAM
1LIVE diGGi	Radio	282 MHz	6900 kSym/s	256 QAM
Bayern 1	Radio	282 MHz	6900 kSym/s	256 QAM

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Bayern 2	Radio	282 MHz	6900 kSym/s	256 QAM
BAYERN 3	Radio	282 MHz	6900 kSym/s	256 QAM
BR Schlager	Radio	282 MHz	6900 kSym/s	256 QAM
BR Heimat	Radio	282 MHz	6900 kSym/s	256 QAM
Bremen Eins	Radio	282 MHz	6900 kSym/s	256 QAM
Bremen Vier	Radio	282 MHz	6900 kSym/s	256 QAM
Bremen Zwei	Radio	282 MHz	6900 kSym/s	256 QAM
Bremen NEXT	Radio	282 MHz	6900 kSym/s	256 QAM
BR24	Radio	282 MHz	6900 kSym/s	256 QAM
BR24live	Radio	282 MHz	6900 kSym/s	256 QAM
BR-KLASSIK	Radio	282 MHz	6900 kSym/s	256 QAM
COSMO	Radio	282 MHz	6900 kSym/s	256 QAM
DASDING	Radio	282 MHz	6900 kSym/s	256 QAM
Die Maus	Radio	282 MHz	6900 kSym/s	256 QAM
NDR 1 Nieders.	Radio	282 MHz	6900 kSym/s	256 QAM
NDR 1 Radio MV	Radio	282 MHz	6900 kSym/s	256 QAM
NDR 2	Radio	282 MHz	6900 kSym/s	256 QAM
NDR 90,3	Radio	282 MHz	6900 kSym/s	256 QAM
NDR Blue	Radio	282 MHz	6900 kSym/s	256 QAM
NDR Info	Radio	282 MHz	6900 kSym/s	256 QAM
NDR Info Spez.	Radio	282 MHz	6900 kSym/s	256 QAM
NDR Kultur	Radio	282 MHz	6900 kSym/s	256 QAM
NDR Schlager	Radio	282 MHz	6900 kSym/s	256 QAM
NDR1WelleNord	Radio	282 MHz	6900 kSym/s	256 QAM
N-JOY	Radio	282 MHz	6900 kSym/s	256 QAM
PULS	Radio	282 MHz	6900 kSym/s	256 QAM
SR 1 Europawelle	Radio	282 MHz	6900 kSym/s	256 QAM
SR Kultur	Radio	282 MHz	6900 kSym/s	256 QAM
SR 5.1 Kultur	Radio	282 MHz	6900 kSym/s	256 QAM
SR 3 Saarlandwelle	Radio	282 MHz	6900 kSym/s	256 QAM
SWR Aktuell	Radio	282 MHz	6900 kSym/s	256 QAM
SWR1 BW	Radio	282 MHz	6900 kSym/s	256 QAM
SWR1 RP	Radio	282 MHz	6900 kSym/s	256 QAM
SWR3	Radio	282 MHz	6900 kSym/s	256 QAM
SWR4 BW	Radio	282 MHz	6900 kSym/s	256 QAM
SWR4 RP	Radio	282 MHz	6900 kSym/s	256 QAM
WDR 2	Radio	282 MHz	6900 kSym/s	256 QAM
WDR 3	Radio	282 MHz	6900 kSym/s	256 QAM
WDR 4	Radio	282 MHz	6900 kSym/s	256 QAM
WDR 5	Radio	282 MHz	6900 kSym/s	256 QAM
WDR Event	Radio	282 MHz	6900 kSym/s	256 QAM
FM4	Radio	282 MHz	6900 kSym/s	256 QAM
L-TV	TV	282 MHz	6900 kSym/s	256 QAM
OE1	Radio	282 MHz	6900 kSym/s	256 QAM
OE2 W	Radio	282 MHz	6900 kSym/s	256 QAM
OE3	Radio	282 MHz	6900 kSym/s	256 QAM
Radio Maria	Radio	282 MHz	6900 kSym/s	256 QAM
Shop LC	TV	282 MHz	6900 kSym/s	256 QAM
U1 Tirol	Radio	282 MHz	6900 kSym/s	256 QAM
RTL Lokal	TV	298 MHz	6900 kSym/s	256 QAM
TV Mainfranken 24h	TV	298 MHz	6900 kSym/s	256 QAM
Bloomberg Europe TV	TV	298 MHz	6900 kSym/s	256 QAM

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Channel21 HD	TV	346 MHz	6900 kSym/s	256 QAM
1-2-3.tv HD2	TV	346 MHz	6900 kSym/s	256 QAM
Handystar TV HD	TV	346 MHz	6900 kSym/s	256 QAM
QVC Style HD	TV	346 MHz	6900 kSym/s	256 QAM
Sky Cinema Classics	TV	386 MHz	6900 kSym/s	256 QAM
1-2-3.tv	TV	610 MHz	6900 kSym/s	64 QAM
ANIXE+	TV	610 MHz	6900 kSym/s	64 QAM
Disney Channel	TV	610 MHz	6900 kSym/s	64 QAM
egoFM	Radio	610 MHz	6900 kSym/s	64 QAM
EWTN kahtolisches TV	TV	610 MHz	6900 kSym/s	64 QAM
Handystar TV	TV	610 MHz	6900 kSym/s	64 QAM
JAM FM	Radio	610 MHz	6900 kSym/s	64 QAM
Klassik Radio	Radio	610 MHz	6900 kSym/s	64 QAM
N24 DOKU	TV	610 MHz	6900 kSym/s	64 QAM
QVC	TV	610 MHz	6900 kSym/s	64 QAM
DMF	TV	610 MHz	6900 kSym/s	64 QAM
TLC	TV	610 MHz	6900 kSym/s	64 QAM
Testfrequenz	TV	850 MHz	6900 kSym/s	64 QAM