

UNITED KINGDOM CONFORMITY ASSESSMENT

**UK TYPE EXAMINATION CERTIFICATE**

**Radio Equipment Regulations**

SI 2017:1206 (as amended) – Schedule 3, Part B

- 1
- 2
- 3 UK Type Examination Certificate No.: **EMA22RER0108**
- 4 Equipment: **Active Car-Antenna**  
**Model: 3789.01**  
**Variants: refer to section 15.**
- 5 Manufacturer: **Desay SV Automotive Europe GmbH**
- 6 Address: **In der Buttergrube 3-7, 99428 Weimar-Legefied, Germany**
- 7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 Element Materials Technology, Approved Body number 0891 in accordance with Regulation 46 of the Radio Equipment Regulations 2017, SI 2017:1206 (as amended), certifies that this equipment has been found to comply with the Essential Requirements relating to the design and construction of radio equipment given in the following Regulations: **6(1)(a) - Health and safety, 6(1)(b) - Electromagnetic compatibility, 6(2) – Radio spectrum.**  
The examination and test results are recorded in the confidential report(s):  
**17/05-0073, 17/05-0073, 20/10-0049.**
- 9 Compliance with the Essential Requirements, with the exception of those listed in section 19 of the schedule to this certificate, has been assured by compliance with:  
**EN 303 354 V1.1.1 (2017-03)                      EN 50083-2:2012                      EN 62368-1:2014+A11:2017**  
**Draft EN 301 489-1 V2.2.0 (2017-03)**
- 10 This TYPE EXAMINATION certificate relates only to the design and construction of the specified equipment in accordance with the Regulations. Further requirements of this Regulations apply to the manufacture and supply of this equipment. These are not covered by this certificate.
- 11 This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the rules of the Element Materials Technology Radio Certification Scheme and remains valid for only so long as the equipment conforms to the type described herein.
- 12 Any deviation to the design and construction of the specified equipment that is not certified by Element Materials Technology shall render this certificate invalid.



Josh Batty, Deputy Certification Manager

Issue date: 2022-11-22

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CSF302-UK 4.0

## SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE

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### 15 General description of equipment included within the scope of this certificate

Roof mount antenna with the following functions and features:

- Active, low noise DAB/DAB+ and TV antenna (B III, B IV/V)
- Active, low noise AM/FM antenna
- 12 V Power Supply of the AM/FM amplifiers either through Phantom Power Supply or via pigtail cable with DIN connector
- 5 –12 V Phantom Power Supply of DAB/DAB+ and TV amplifier
- Active GPS antenna (Phantom Power Supply)
- Low wind noise antenna rod
- Easy fit –one mounting hole for 3 functions

The following additional variants are also covered by this Certificate:

2108.01, 2108.02, 2108.03, 3701.01, 3701.06, 3701.07, 3701.12, 3701.13, 3701.19, 3703.01, 3703.19, 3703.29, 3704.01, 3704.19, 3708.01, 3708.02, 3712.01, 3713.01, 3714.01, 3715.01, 3717.01, 3719.01, 3725.01, 3728.01, 3728.03, 3729.01, 3733.01, 3740.01, 3742.01, 3742.02, 3742.03, 3742.04, 3742.05, 3742.06, 3742.07, 3742.09, 3743.02, 3745.01, 3748.01, 3748.02, 3751.01, 3756.02, 3765.01, 3765.02, 3765.03, 3765.04, 3765.05, 3767.01, 3769.01, 3771.01, 3784.01, 3786.01, 3786.02, 3798.01, 4437.01, 4437.03, 4437.39, 4456.01, 4456.02, 4456.06, 4458.01, 4458.07, 4536.38, 4542.01, 4558.01, 4729.01, 2112.01, 2112.02, 2112.05, 2112.06, 2113.01, 2113.02, 2113.03, 2113.04, 2113.06, 2113.07, 2117.01, 2117.02, 4020.04, 4020.80, 3792.01, 3792.02, 2105.01, 2107.01, 3707.02, 3788.01, 3788.02, 3705.02, 3705.03, 3736.01, 3736.02, 3736.03, 3736.04, 3736.05, 3760.03, 3793.01, 3785.01, 3785.02, 3785.03

The conformity of the model 3789.01 covers the conformity of the model group “A1, X2” as listed in the follow tables below.

Broadcast-LP- Typ	GPS-LP-Typ	Lead antennas	Designation	Customer reference number (if available)
No	A1	(blank)	<b>2108.01D.ant.TETRA,GSM/UMTS,GPS,FAKRmIDC</b>	
			<b>2108.02D.ant.TETRA,GSM/UMTS,GPS,FME m/f</b>	
			<b>2108.03D.ant.TETRA,GSM/UMTS,GPS,FAKRAmff</b>	
			3701.01Dachant.GSM/UMTS,GPS,FME m,FME f	
			3701.06D-ANT.GSM/UMTS/GPS,2X3,5MMMCX/MCX	
			3701.07 DACHANT.GSM/UMTS/GPS,2X5MSMA/MCX	
			3701.12D-Ant.GSM/UMTS/GPS,2x0,5mFAKRAfDC	
			3701.13 Dachant.GSM/UMTS/GPS,FAKRAmD/C	
			3701.19 DACHANT. GSM/UMTS/GPS, FAKRAMD/C	
			3703.01 DACHANT. CB/GSM/GPS,FMEM/M/F	
			3703.19DACHANT.CB/GSM/GPS,FMEF/FAKRAMD/C	
			3703.29DACHANT.CB/GSM/GPS,FMEF/FAKRAMD/C	81.28205-6088
			3704.01 DACHANT., W-LAN/GPS, SMAM/FMEF	
			3704.19 DACHANT.,WLAN/GPS, FAKRAH/FAKRAMC	
			<b>3708.01 KF-Dachant.4m/2m/TETRA/GPS/GSM</b>	
			<b>3708.02 KF-Dachant.4m/2m/TETRA/GPS/GSM</b>	
			<b>3712.01 Dachant.GPS/TETRA 380-410MHz 3dB</b>	
			<b>3713.01D.ant.4m/TETRA3dB/GPS/GSM,FAKRA+V</b>	
			<b>3714.01 Dachant.TETRA/GSM/UMTS/GPS,FME m</b>	

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			3715.01KF-Dachant.4m/TETRA/GPS/GSM/AM/FM	
			3717.01 Dachant. 4m/TETRA/GPS/GSM	
			3719.01 Dachant.TETRA3dB/GPS/AM/FM	
			3725.01Dachant.TETRA/GSM/UMTS/GPS,FAKRAm	
			3728.01DACHANT.GSM/UMTS/WLAN/GPS,3XFAKRA	
			3728.03 D.ANT.GSM,UMTS,WLAN,GPS, FAKRAF	
			3729.01 Kombif.-Dachant. 2m4mTETRAGSMGPS	
			3733.01 KF-DACHANT. 2M(FMEM)/GPS(FMEF)	
			3740.01 KF-Dachant. TETRA/GSM/UMTS/GPS	
			3742.01 Ant. GSM/UMTS/LTE/GPS,SMAm/FMEf	
			3742.02 D.ant.GSM,UMTS,LTE/GPS,FAKRAmG/H	81.28205-6099
			3742.03 D.ant.GSM,UMTS,LTE/GPS,FMEf/SMBf	
			3742.04D.ANT.GSM,UMTS,LTE/GPS,RSMAM/SMAM	
			3742.05 D.ANT.GSM,UMTS,LTE/GPS,FAKRAMGH	
			3742.06 D.ANT.GSM,UMTS,LTE/GPS,SMAM/SMAM	
			3742.07 D.ant.GSM,UMTS,LTE/GPS,SMAm/SMAM	
			3742.09 D.ant.GSM,UMTS,LTE/GPS,FAKRAmGH	
			3743.02 Kombi-Dachant. CB,GSM,UMTS,GPS	81.28205-6098
			3745.01 KFDachant.TETRA/GPS,FMEf/FAKRAmC	
			3748.01DACHANT.2/70CMGSM/GPS,FAKRAMIDC	
			3748.02 Ant.fuß 2m/70cm,GSM/UMTS,GPS -VW	
			3751.01 KF-DACHANT.2M/TELE./GSM-UMTS/GPS	
			3756.02 Dachant.TETRA/Telestart/GSM/GPS	
			3765.01Ant.TETRA,GSM,UMTS,LTE,FAKRAmIDC	
			3765.02 Ant.TETRA,GSM,UMTS,LTE,FME/SMA	
			3765.03Ant.TETRA,GSM,LTE,GPS,FAKRAmIDC	
			3765.04Ant.TETRA,GSM,LTE,GPS,FAKRAfIDC	
			3765.05Ant.TETRA,GSM,LTE,GPS,FAKRA - UK	
			3767.01 Kombif.-Dachant. 2m4mTETRAGSMGPS	
			3769.01 Dachant.TETRA/GPS,FMEf/SMAM	
			3771.01 D-Ant.TETRA/GSM/GPS,FAKRAm I/D/C	
			3784.01 DACHANT.GMS,UMTS,GPS,FAKRAMC+D	
			3786.01KF-Dachant.TETRA,GPS,FMEf/f	
			3786.02 KF-Dachant.TETRA/GPS, FAKRAm-I/C	
			3798.01 K-Dachant. FM passiv, GPS	
			4437.01 GPS-Festeinbauant,2,6mRG174,FMEf	
			4437.03 GPS-Einbauant., 7m RG174, FMEf	
			4437.39 GPS-FESTEINBAUANT,0,1MRG174,FMEM	
			4456.01 GPS-Innenant.,2mRG174,FMEf,entgE	
			4456.02 GPS-INNENANT.,2MRG174;FAKRAMD	
			4456.06 GPS-ANT. 1,0M RG174;FAKRA(M)-D	
			4458.01 GPS-Innenant.,2mRG174,FMEf,inEmp	
			4458.07 GPS-ANT. 0,5M RG174;FAKRA (M)-C	JKV 051 174

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			4536.38 DACHANT.GSM/GPS/AM/FMPAS.,O.MUTT	
			4542.01 Dachant.GPS,2m/70cm, FMEf/FMEf	
			4558.01 KF-Dachant. 2m(FMEf)/GPS(FMEf)	
			4729.01 Kabel-Ant.-Set 3742.04+4728.01+02	
X2	No	(Blank)	2112.01 Dachant. AM/FM aktiv, FAKRAmB	
			2112.02 Dachat. AM/FM akt.,FAKRAmB - MAN	81.28205-6093
			2112.05Dachant.AM/FMakt,0,145m,M10x0,75m	
			2112.06Dachant.AM/FMakt.,FAKRAfA-VanHool	
			2113.01Ant.AM/FM/GSM/UMTS,akt.,FAKRAmB+D	
			2113.02 Dachant.GSM,AM/FM,UMTS,FAKRAmD+B	81.28205-6094
			2113.03 Dachant.GSM,AM/FM,UMTS,FAKRAmD+B	A 004 820 39 75
			2113.04D-Ant.AM/FM,GSM/UMTS,M10x0,75,FME	
			2113.06D-Ant.AM/FM,GSM/UMTS,M10x0,75,FME	
			2113.07D-Ant.AM/FM,GSM/UMTS,M10x0,75,FME	
			2117.01 Dachantenne Radio aktiv 76 Grad	
			2117.02 D.ant AM/FM,aktiv,0,14m,RAKU2	
			4020.04Dachant.AM/FMaktiv,110mm,FAKRAmB	
			4020.80 Flex-Dachant. AM/FM, AUDIZubehör	4B9 051 505
			3792.01Ant.AM/FM,DAB+,DVBT/FAKRAmB+H Hym	
			3792.02Ant.AM/FM,DAB+,DVBT/FAKRAmB+H Hym	
	A1		2105.01 Dachant.380-430MHz,AM/FMaktiv	
			2107.01Dachant.TETRA380-410MHz,AM/FMakti	
			3707.02 KF-Dachant. AM/FM/TETRA/GPS	
			3788.01Ant.AM/FM,DAB+,DVBT/FAKRAmB+H Hym	
			3788.02Ant.AM/FM,DAB+,DVBT/FAKRAmB+G	3255018
			3705.02 ANT. GPS, GSM900/1800,AM/FMAKTIV	81.28205-6084
			3705.03 DACHANT. GPS, GSM, AM/FM AKTIV	82.28205-0029
			3736.01 KF-DACHANT. GSM/GPS/UMTS/LTE	
			3736.02 DACHANT. GPS,GSM,AM/FM AKTIV	81.28205-6095
			3736.03 DACHANT. GPS,GSM,AM/FM AKTIV	A 004 820 40 75
			3736.04 D-ANT.AM/FM,GSM/UMTS,GPS	
			3736.05 KF-DACHANT. GSM/GPS/AM/FM	
			3760.03 SET-ANT.GPS,GSM,AM/FM,FAKRAMDCA	
			3793.01 ANTENNE AMU/FM,DAB+,DVBT,GPS	
		Lead Antenna A1, X2	3789.01ANT.AM/FM,DAB+,DVBT,GPS,FAKRAMBHC	
T2	A1	(Blank)	3785.01 DACHANT.AM/FM,DAB/DAB+,GPS/FAKRA	
			3785.02DACHANT.AM/FM,DAB/DAB+,GPS/FAKRA	
			3785.03 DACHANT.AM/FM,DAB/DAB+,GPS/FAKRA	

**SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE  
CERTIFICATE NUMBER EMA21RER0140**

**16 Technical description**

Frequency bands:	AM:	0.15 - 16 MHz
	FM:	87.5 - 108 MHz
	DAB+:	174 – 230 MHz
	DVB-T:	474 – 602 / 610 – 786 MHz
	GPS:	1575.42 MHz
Type of antenna and gain:	Combi Flex Roof Mount Antenna, Gain:	AM: 5 dB
		FM: 15 dB
		DAB+: 15 dB
		DVB-T: 12 dB / 10 dB
		GPS: 28 dB ± 3 dB

**17 Technical Documents describing the certified equipment**

The list of technical documents is given in Appendix A to this schedule.

<b>18 Test report No. (associated with this certificate issue):</b>	<b>Product Safety:</b>	<b>20/10-0049</b>
	<b>EMC:</b>	<b>17/05-0073</b>
	<b>Radio:</b>	<b>17/05-0073</b>

**19 Essential Requirements (Schedule 1)**

Covered by application of the standards listed in section 9 of this certificate and the assessment conducted in the test report/s listed in section 8 of this certificate.

**20 “Restrictions on Use”, if any:**

None.

**21 “Routine tests”, if any:**

None.

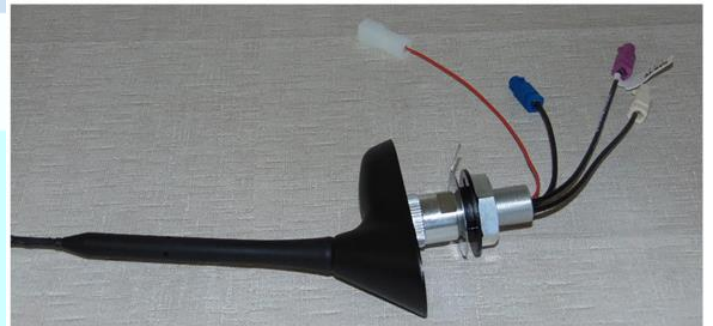
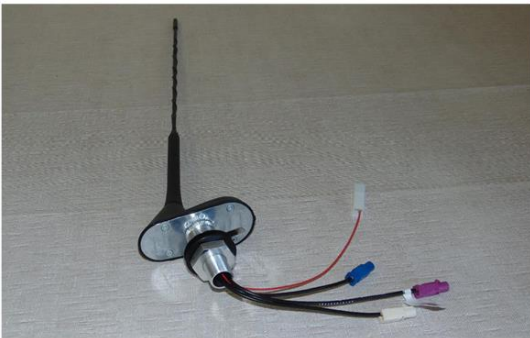
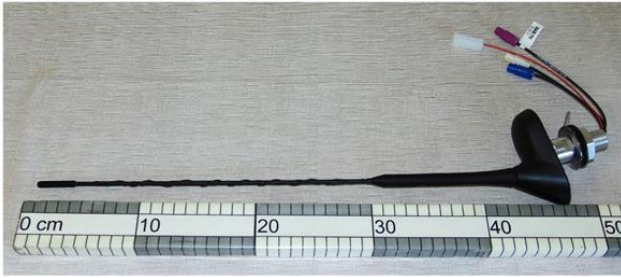
**22 Other information, if any:**

- Designated standard not available covering this type of equipment.
- For radio and EMC requirements from EN 303 354 V1.1.1 (2017-03) and EN 50083-2:2012 which were deemed most relevant of the available standard.
- This UK RER application is applied for based on original RED application performed by STC Germany GmbH with certificate number 20/10-0049 and issue date: 2021-10-29.

**23 Photographs**



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**24 Details of markings**

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**Product Labels**



**Product Label Location**



**Packaging Label**

(1) Wareneinfänger Hymmer AG, Werk 3 Holzlandstraße 19 86339 Bad Waldsee	(2a) Verbraucherort (2b) Charge-Nummer (2D S) 16070924
(3) Lieferschein-Nr. (S) Nx x x x - x x x x x	(4) Lieferort ANTENNE PF 1154, 07419 Bad Blankenburg
(5) Gewicht netto XXX KG	(6) Gewicht brutto XXX KG
(7) Anzahl Packstücke X/X	
(8) Sach-Nr. Kunde (P) P2656184	
(9) Menge (Q) Q25 St	(10) Bezeichnung Lieferant Kombiflex - Dachantenne Rundfunk / TV / GPS / Montageset
(12) Lieferanten-Nr. (V) V0072191	(11) Sach-Nr. Lieferant (2D S) 5005428
(13) Versanddatum XXXXXXXX	(14) Änderungsstand Konstruktion
(15) Packstück-Nr. (S)	(16) Bestellnummer (K) Kxxxxxxxx

**25 Certificate History**

Original certificate      2022-11-22      First issue.

This certificate is a consolidated certificate and reflects the latest status of the certification, including all variations and amendments.

**26 Notes to UKCA marking**

In respect of UKCA Marking, Element Materials Technology accepts no responsibility for the compliance of the product against all applicable Regulations in all applications.

**27 Notes to this certificate**

Element Materials Technology certification reference: TRA-060095-00 i3 (GU-STCQ-0011).

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Approved Body 0891 is the designation for Element Materials Technology Warwick Ltd.

**28 Conditions for the validity of this certificate**

This certificate remains valid for so long as:

- (i) The equipment listed in section 4 is manufactured in accordance with the technical documents listed in Appendix A of this certificate.
- (ii) The standards listed in section 9 of this certificate continue to satisfy the Essential Requirements relating to the design and construction of radio equipment given in the Regulation 6, as listed in section 8 of this certificate, and the generally acknowledged state of the art (e.g., as determined by the publishers of those standards).

**SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE**  
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**APPENDIX A - LIST OF TECHNICAL DOCUMENTS**

<b>Title:</b>	<b>Document/file name:</b>	<b>Rev. Level:</b>	<b>Issue date:</b>
Technical file	0049 (3789.01 Series)	initial	2021-10-29

