



# Digital Switchover Transmitter Details

Meridian Region

Issue 3.0

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# Digital Switchover Transmitter Details: Meridian Region

This document contains details of the transmission characteristics which the television transmitter network will adopt at digital switchover. Information on current digital frequencies is available on the Ofcom website ([www.ofcom.org.uk](http://www.ofcom.org.uk)).

This information is primarily intended to help systems installers make initial preparations for switchover by highlighting those transmitters where frequency allocations and aerial group requirements are likely to change.

A key to column headings is provided in the Glossary.

Please note that although we anticipate that this frequency plan will remain relatively stable in the run-up to switchover, it may prove necessary to make changes to some aspects of the plan with the aim of maximising coverage across the UK. If you would like to be kept informed of any changes, please join our digital transmitter mailing list by sending an email to [broadcast.technical@ofcom.org.uk](mailto:broadcast.technical@ofcom.org.uk), with the word 'subscribe' as the message subject.

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### Bluebell Hill transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Bluebell Hill</b>	<b>TQ757613</b>	<b>46</b>	<b>20kW</b>	<b>43</b>	<b>20kW</b>	<b>40+</b>	<b>20kW</b>	<b>E/WH</b>	E/WH	40	46	43	65	
Chatham Town	TQ767675	57	5W	58	5W	52	5W	C/DV	C/DV	58	68	61	54	
Farleigh	TQ738530	56	3.2W	50	3.2W	53	3.2W	C/DV	WV	28	57	21	54	

### Bluebell Hill transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Bluebell Hill</b>	<b>TQ757613</b>	<b>45</b>	<b>20kW</b>	<b>39+</b>	<b>20kW</b>	<b>54</b>	<b>20kW</b>	<b>E/WH</b>	E/WH	40	46	43	65	

### Dover transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Dover</b>	<b>TR273397</b>	<b>50</b>	<b>80kW</b>	<b>51</b>	<b>80kW</b>	<b>53</b>	<b>80kW</b>	<b>C/DH</b>	C/DH	50	56	66	53	
Chartham	TR103561	21	50W	24	50W	27	50W	AV	AV	21	27	24	31	
Dover Town	TR311430	26	20W	23	20W	30	20W	AV	AV	33	26	23	30	
Elham	TR188449	26	4W	23	4W	30	4W	AV	AV	33	26	23	30	
Faversham	TR003602	21	20W	24	20W	27	20W	AV	AV	22	28	25	32	
Folkestone	TR220359	26	100W	23	100W	30-	100W	AV	AV	33	26	23	30	

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
Horn Street	TR190359	44	20W	41	20W	47	20W	BV	E/WV	58	44	41	47	
Hythe	TR169344	26	50W	23	50W	30	50W	AV	AV	21	27	24	31	
Lydden	TR263458	43	4W	40	4W	46	4W	BV	E/WV	43	46	40	64	
Lyminge	TR167428	22	5W	25	5W	28	5W	AV	AV	22	28	25	32	
Margate	TR370701	50	200W	51	200W	53	200W	BV	AV	22	28	25	32	
Newnham	TQ950571	21	10W	24	10W	27	10W	AV	AV	21	27	24	31	
Ramsgate	TR385651	26	50W	23	50W	30	50W	AV	AV	33	26	23	30	
Rye	TQ904198	54	50W	46	50W	56	50W	C/DV	E/WV	58	44	41	47	
Turnpike Hill	TR153344	44	5W	41	5W	47	5W	BV	E/WV	58	44	41	47	

### Dover transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Dover<sup>a</sup></b>	<b>TR273397</b>	<b>55</b>	<b>40kW</b>	<b>59</b>	<b>40kW</b>	<b>48</b>	<b>40kW</b>	<b>C/DH</b>	C/DH	50	56	66	53	

<sup>a</sup> Dover COM multiplexes will use temporary frequencies from January 2011 until Dover DSO. During this period, SDN Multiplex A will operate on channel 60 at 2kW ERP. Arqiva Multiplex C will operate on channel 62 at 2kW ERP (this is in addition to the existing channel 39 Dover 'B' frequency, which will remain unchanged). Arqiva Multiplex D will operate on channel 55 at 2kW.

### Hannington transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Hannington</b>	<b>SU527568</b>	<b>45</b>	<b>50kW</b>	<b>42</b>	<b>50kW</b>	<b>39+</b>	<b>50kW</b>	<b>BH</b>	E/WH	39	45	42	66	35
Aldbourne	SU262752	27	2W	24	2W	21	2W	AV	AV	21	27	24	31	
Alton	SU722386	57	2W	60	2W	53	2W	C/DV	C/DV	49	62	59	52	
Chisbury <sup>b</sup>	SU274651	50	8W	59	8W	55	8W	C/DV	C/DV	55	62	59	52	
Hemdean HP	SU710762	52	8W	46	8W	48	8W	C/DH	C/DH	49	52	56	59	
Hemdean VP	SU710762	52	32W	46	32W	48	32W	C/DV	C/DV	49	52	56	59	
Hurstbourne Tarrant	SU377533	28	2W	25	2W	22	2W	AV	AV	22	28	32	25	
Lambourn <sup>c</sup>	SU333794	49	2W	58	2W	54	2W	C/DV	C/DV	55	62	59	52	
The Bournes	SU842451	57	6.9W	60	6.9W	53	6.9W	C/DV	E/WV	47	51	59	49	
Tidworth	SU228488	29	2.6W	26	2.6W	23	2.6W	AV	AV	22	28	32	25	

### Hannington transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Hannington</b>	<b>SU527568</b>	<b>41</b>	<b>25kW</b>	<b>44</b>	<b>25kW</b>	<b>47</b>	<b>25kW</b>	<b>BH</b>	E/WH	39	45	42	66	35

<sup>b</sup> Between the first and second stages of switchover at Chisbury, BBC A will use channel 62

<sup>c</sup> Between the first and second stages of switchover at Lambourn, BBC A will use channel 61

### Hastings transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Hastings</b>	<b>TQ806100</b>	<b>25</b>	<b>1kW</b>	<b>28</b>	<b>1kW</b>	<b>22</b>	<b>1kW</b>	<b>AV</b>	AV	22	25	28	32	35
Hastings Old Town <sup>d</sup>	TQ826101	50	20W	59	20W	55	20W	C/DV	E/WV	45	39	42	55	

### Hastings transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Hastings</b>	<b>TQ806100</b>	<b>23</b>	<b>1kW</b>	<b>26</b>	<b>1kW</b>	<b>30-</b>	<b>1kW</b>	<b>AV</b>	AV	22	25	28	32	35

### Heathfield transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Heathfield</b>	<b>TQ566220</b>	<b>52</b>	<b>20kW</b>	<b>49</b>	<b>20kW</b>	<b>47</b>	<b>20kW</b>	<b>BH</b>	C/DH	49	52	64	67	
Bexhill <sup>e</sup>	TQ729075	46-	400W	40	400W	43	400W	BH						
Eastbourne	TV606977	26	100W	30-	100W	23	100W	AV	AV	33	26	23	30	
Eastbourne Old Town	TV599996	46	16W	40	16W	43	16W	BV	E/WV	40	46	43	58	

<sup>d</sup> Between the first and second stages of switchover at Hastings Old Town, BBC A will use channel 62

<sup>e</sup> Bexhill is a new transmitter site which will come into operation at digital switchover.

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
East Dean	TV563988	59	8W	55	8W	50	8W	C/DV	E/WV	62	44	54	42	
Ham Street	TR005332	26	2W	30	2W	23	2W	AV	AV	33	26	23	30	
Haywards Heath	TQ333234	45-	7W	46-	7W	43	7W	BV	BV	39	45	43	41	
Hollington Park <sup>f</sup>	TQ795109	50	5W	59	5W	55	5W	C/DV	E/WV	45	39	42	55	
Lamberhurst	TQ673366	60	2W	54	2W	57	2W	C/DV	C/DV	54	60	62	58	
Lewes HP	TQ409099	28	12W	22	12W	25	12W	AH	AH	22	28	25	32	
Lewes VP	TQ409099	28	48W	22	48W	25	48W	AV	AV	22	28	25	32	
Mountfield	TQ740193	26	2W	30	2W	23	2W	AV	AV	21	27	24	31	
Newhaven <sup>g</sup>	TQ435006	40	400W	46-	400W	43	400W	BV	BV	39	45	43	41	
Rye	TQ904198	56	50W	48	50W	54	50W	C/DV	E/WV	58	44	41	47	
Sedlescombe	TQ784182	26	2W	30	2W	23	2W	AV	AV	33	26	23	30	
Wye	TR066472	28	6.2W	22	6.2W	25	6.2W	AV	AV	22	28	25	32	

### Heathfield transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Heathfield<sup>h</sup></b>	<b>TQ566220</b>	<b>42</b>	<b>20kW</b>	<b>44</b>	<b>20kW</b>	<b>41</b>	<b>20kW</b>	<b>BH</b>	C/DH	49	52	64	67	

<sup>f</sup> Between the first and second stages of switchover at Hollington Park, BBC A will use channel 62

<sup>g</sup> Between the first and second stages of switchover at Newhaven, BBC A will use channel 50

<sup>h</sup> Heathfield SDN will temporarily operate on channel 48 (at 2kW ERP) for a short period after switchover until late June 2012.

### Midhurst transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
Midhurst	SU912249	55	20kW	61	20kW	58	20kW	C/DH	C/DH	61	55	58	68	
Haslemere	SU886331	28	10W	22	10W	25	10W	AV	AV	22	28	25	32	
Steyning	TQ184121	59	28W	50	28W	62	28W	C/DV	E/WV	45	59	62	56	

### Midhurst transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
Midhurst	SU912249	62	10kW	59	10kW	50	10kW	C/DH	C/DH	61	55	58	68	

Oxford transmitter group – Please see Central Region Transmitter Details document

### Rowridge transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
Rowridge	SZ447865	24	200kW	27	200kW	21+	200kW	AH	AH	31	24	27	21	
Rowridge VP <sup>i</sup>	SZ447865	24	200kW	27	200kW	21+	200kW	AV	AV	31	24	27	21	
Bovington	SY844878	44	2W	41	2W	47	2W	BV	BV	51	44	41	47	

<sup>i</sup> Rowridge will transmit both horizontally and vertically polarised signals for all six multiplexes after switchover.

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
Brading	SZ612872	49	10W	46	10W	43	10W	BV	BV	51	44	41	47	
Brighstone	SZ435816	44	28W	41	28W	47	28W	BV	BV	51	44	41	47	
Canford Heath	SZ036939	45	2W	46	2W	42	2W	BV	E/WV	39	45	68	42	
Cheselbourne	SY768985	57	2W	53	2W	60	2W	C/DV	C/DV	57	63	53	60	
Corfe Castle	SY972821	44	4W	41	4W	47	4W	BV	BV	51	44	41	47	
Donhead	ST907230	44	5.8W	41	5.8W	47	5.8W	BV	BV	51	44	41	47	
Findon	TQ120072	44	2kW	41	2kW	47	2kW	BV	BV	51	44	41	47	
Horndean	SU698152	56	5W	50	5W	40	5W	E/WV	C/DV	56	64	50	62	
Luccombe	SZ581800	54	40W	59	40W	50	40W	C/DV	WV	56	62	59	34	
Lulworth <sup>j</sup>	SY824815	50	2.2W	59	2.2W	55	2.2W	C/DV	C/DV	55	62	59	65	
Luscombe Valley	SZ047908	45	2W	46	2W	42	2W	BV	BV	39	45	49	42	
Millbrook HP	SU374138	44	1W	41	1W	47	1W	BH	BH	51	44	41	47	
Millbrook VP	SU374138	44	8W	41	8W	47	8W	BV	BV	51	44	41	47	
Piddletrenthide	SY704989	45	11W	39	11W	42	11W	BV	BV	39	45	49	42	
Poole	SZ037921	57	50W	60	50W	53	50W	C/DV	C/DV	57	63	60	53	
Poulner	SU145053	44	10W	41	10W	47	10W	BH	E/WH	39	45	68	42	
Salisbury	SU136285	57	2kW	60-	2kW	53	2kW	C/DV	C/DV	57	63	60	53	68
Shrewton	SU072438	44	2W	41	2W	47	2W	BV	BV	51	44	41	47	
Singleton	SU866131	44	2.6W	41	2.6W	47	2.6W	BV	BV	51	44	41	47	
Sutton Row	ST976284	29	50W	23	50W	26	50W	AV	AV	22	28	25	32	
Till Valley	SU066370	46	15W	43	15W	40	15W	BV	BV	46	40	43	50	

<sup>j</sup> Between the first and second stages of switchover at Lulworth, BBC A will use channel 62

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
Ventnor	SZ567783	54	400W	49	400W	52	400W	C/DV	BV	39	45	49	42	
Westbourne	SZ067916	44	7.6W	41	7.6W	47	7.6W	BV	BV	51	44	41	47	
Winterborne Stickland	ST838051	46	200W	43	200W	40	200W	BV	BV	40	46	43	50	
Winterbourne Steepleton <sup>k</sup>	SY629893	39	2.4W	45	2.4W	42	2.4W	BV	E/WV	39	49	45	66	

### Rowridge transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
Rowridge <sup>l</sup>	SZ447865	25	50kW	22+	50kW	28	50kW	AH	AH	31	24	27	21	
Rowridge VP <sup>m</sup>	SZ447865	25	200kW	22+	200kW	28	200kW	AV	AV	31	24	27	21	
Salisbury	SU136285	62	2kW	59-	2kW	55	2kW	C/DV	C/DV	57	63	60	53	68

<sup>k</sup> Between the first and second stages of switchover at Winterbourne Steepleton, BBC A will use channel 49

<sup>l</sup> Rowridge COM multiplexes will remain on their pre-switchover channel allocations (30, 37 & 33) until mid-April 2012

<sup>m</sup> Rowridge will transmit both horizontally and vertically polarised signals for all six multiplexes after switchover. Rowridge VP's COM multiplexes will come on-air in mid April 2012 when the COM multiplexes at Rowridge adopt their final channel allocations (this does not affect Rowridge VP's PSB multiplexes, which will come on-air at switchover).

### Tunbridge Wells transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Tunbridge Wells</b>	<b>TQ607439</b>	<b>52</b>	<b>4kW</b>	<b>49</b>	<b>4kW</b>	<b>47</b>	<b>4kW</b>	<b>BV</b>	BV	51	44	41	47	37
St Marks HP	TQ582373	57	6.4W	60	6.4W	53	6.4W	C/DH	C/DH	57	63	60	53	
St Marks VP	TQ582373	57	26W	60	26W	53	26W	C/DV	C/DV	57	63	60	53	

### Tunbridge Wells transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Tunbridge Wells<sup>n</sup></b>	<b>TQ607439</b>	<b>42</b>	<b>4kW</b>	<b>44</b>	<b>4kW</b>	<b>41</b>	<b>4kW</b>	<b>BV</b>	BV	51	44	41	47	37

### Whitehawk Hill transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Whitehawk Hill</b>	<b>TQ329045</b>	<b>60-</b>	<b>4kW</b>	<b>53</b>	<b>4kW</b>	<b>51</b>	<b>4kW</b>	<b>C/DV</b>	C/DV	57	63	60	53	35
Bevendean	TQ334066	43	5W	40	5W	46	5W	BV	K/WV	40	46	43	29	
Brighton Central	TQ312049	41	20W	47	20W	44	20W	BH	BH	39	45	41	47	
Coldean	TQ329083	44	16W	47	16W	41	16W	BV	E/WV	65	42	44	68	

<sup>n</sup> Tunbridge Wells SDN will remain at its pre-switchover ERP of 100W until late June 2012.

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
Hangleton <sup>o</sup>	TQ269077	50	5W	55	5W	52	5W	C/DV	BV	39	45	49	42	
Ovingdean HP <sup>p</sup>	TQ358044	49	10W	50	10W	55	10W	C/DH	E/WH	65	42	44	68	
Ovingdean VP <sup>p</sup>	TQ358044	49	10W	50	10W	55	10W	C/DV	E/WV	65	42	44	68	
Patcham	TQ318093	43	14W	50	14W	46	14W	BH	BH	46	40	43	50	
Portslade	TQ245080	41	10W	47	10W	44	10W	BV	BV	51	44	41	47	
Saltdean	TQ388034	55	40W	54	40W	58	40W	C/DV	E/WV	51	66	55	47	

### Whitehawk Hill transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Whitehawk Hill<sup>q</sup></b>	<b>TQ329045</b>	<b>57</b>	<b>4kW</b>	<b>56</b>	<b>4kW</b>	<b>48</b>	<b>4kW</b>	C/DV	C/DV	57	63	60	53	35

<sup>o</sup> Between the first and second stages of switchover at Hangleton, BBC A will use channel 49

<sup>p</sup> Between the first and second stages of switchover at Ovingdean HP and Ovingdean VP, BBC A will use channel 55

<sup>q</sup> SDN at Whitehawk Hill will temporarily operate on channel 66 at (at 200W) between the first and second stages of switchover.

## Glossary

Site Name:	The name of the transmitter site. Primary transmitters in each transmitter group are highlighted in <b>bold</b> , with their dependent relays listed alphabetically below them. Public Service Broadcaster (PSB) and Commercial (COM) multiplexes are shown in separate tables.
NGR:	The location of the transmitter site, in Ordnance Survey National Grid Reference format.
Multiplex names:	The post-switchover name of the multiplex. See below for more details
Channel	The UHF channel number of the multiplex. The centre frequency, $F_c$ (in Megahertz) of the multiplex can be calculated using $F_c=8n+306$ , where $n$ is the UHF channel number. A + or - following the channel number indicates that the frequency is offset by +0.167MHz or -0.167MHz with respect to the channel centre. Channel numbers highlighted in red are likely to be affected in future by the clearance of channels 61 and 62: see the '800 MHz Clearance' section below.
ERP	The Effective Radiated Power of the multiplex, in watts (W) or kilowatts (kW)
DSO	Digital Switchover
DSO Aerial Group:	Suggested aerial group for reception of the 3 PSB multiplexes (and the 3 COM multiplexes, where broadcast) from this transmitter after digital switchover. See below for more information on aerial groups. The final character in this column indicates whether signals are horizontally (H) or vertically (V) polarised.
DSO Aerial Group Colour codes:	All DSO frequencies at this transmitter are re-assigned analogue frequencies. If aerials and cabling are in good condition, viewers should not need to replace them.
	One or more DSO frequencies were previously unused at this transmitter by analogue TV, but all DSO channels fall within the analogue aerial group. If aerials and cabling are in good condition, replacement should not be necessary. Some changes may be required to larger systems which contain channelised components, such as communal aerial (MATV / IRS) systems.
	One or more DSO frequencies were previously unused at this transmitter by analogue TV, and these also fall outside the existing analogue aerial group. Therefore a replacement aerial of a different group may be required. Some changes may be required to larger systems which contain channelised components, such as communal aerial (MATV / IRS) systems.
Pre-DSO Aerial Group:	Suggested aerial group for reception of analogue services from this transmitter. The aerial groups shown are based upon four-channel reception and do not take into account Channel 5's analogue frequencies where these are out of group.
Analogue channels:	The UHF channel numbers of the analogue services currently broadcast from this transmitter site. The nominal analogue vision carrier frequency, $F_v$ (in Megahertz) of the service can be calculated using $F_v=8n+303.25$ , where $n$ is the UHF channel number.
Single Frequency networks (SFNs)	In order to maximise digital coverage, some transmitter sites will operate as Single Frequency Networks (SFNs) at switchover. In an SFN, neighbouring transmitters use the same frequencies as each other.

## Multiplex Names and Transmission Modes

The naming convention for the DTT multiplexes changes at switchover. The table below compares the post-switchover and pre-switchover names, and provides information on transmission modes:

Post-Switchover Name	Pre-Switchover Name	Operator	Post-switchover Transmission Mode
BBC A (PSB)	Multiplex 1	BBC	DVB-T: 64 QAM, code rate 2/3, 8K FFT
D3&4 (PSB)	Multiplex 2	Digital 3 & 4	DVB-T: 64 QAM, code rate 2/3, 8K FFT
BBC B (PSB)	Multiplex B	BBC	DVB-T2: 256 QAM, code rate 2/3, 32K FFT
SDN (COM)	Multiplex A	SDN	DVB-T: 64 QAM, code rate 3/4, 8K FFT <sup>18</sup>
Arqiva A (COM)	Multiplex C	Arqiva	DVB-T: 64-QAM, code rate 3/4, 8K FFT <sup>18</sup>
Arqiva B (COM)	Multiplex D	Arqiva	DVB-T: 64-QAM, code rate 3/4, 8K FFT <sup>18</sup>

## Aerial Groups

Television aerials are designed to operate most efficiently over a specific range of frequencies, as shown in the table below. For guidance, this document suggests a suitable aerial group for reception of the digital services from each transmitter. Where a transmitter uses a semi-wideband channel grouping (E or K), a wideband (W) aerial is also suggested as an alternative. The colour codes in the table below are often used by aerial manufacturers to aid identification of the aerial's group.

Aerial Group	Channels	Colour Code
A	21-37	Red
B	35-53	Yellow
C/D	48-68	Green
E	35-68	Brown
K	21-48	Grey
W	21-68	Black

## Transitional Transmission Characteristics

Transmission frequencies are intensively used in many parts of the UK. To avoid unnecessary interference being caused to viewers, a certain number of multiplexes will need to operate with 'transitional' transmission characteristics for a limited period following switchover at particular transmitters. These transitional characteristics are only likely to affect a small proportion of sites. For example, some channels may need to operate at slightly reduced power levels compared to the final post-switchover allocations shown in this booklet. This is primarily in order to prevent interference being caused to neighbouring transmitters which may not switch over until later in the regional sequence. Full power operation will be adopted when these interference constraints are removed, generally when the neighbouring transmitter or region switches over. Details of known transitional arrangements affecting individual transmitters are provided in footnotes.

<sup>18</sup> At a limited number of transmitters one or more COM multiplexes may continue to use their pre-switchover transmission mode for a short period following switchover. COM multiplexes at some transmitters which have switched over currently operate at 64 QAM code rate 2/3, but all COM multiplexes are expected to move to 64 QAM rate 3/4 by summer 2012. Digital UK's postcode checker provides more information.

## 800 MHz Clearance

In order to align the frequencies released by digital switchover for alternative uses with those released by other European countries, UHF channels 61 and 62 will be 'cleared' of digital TV services over the coming years. UHF channels 39 and 40 (which were previously among the channels due to be released for other uses after switchover) will instead now be retained for TV broadcasting.

In order to minimise changes to domestic aerial groups, the general approach for adopting these changes is that multiplexes using channels 61 or 62 will move to channels 49 or 50, and multiplexes using channels 49 or 50 may move to channels 39 or 40. Other channels may also be affected in some cases. Where it is not possible to carry out the changes at the time of digital switchover, we currently expect frequency changes to have been completed by the end of 2013.

Multiplexes highlighted in **red** in this guide are likely to change frequency in future as a result of 800 MHz clearance.

## Analogue Channel Changes

For engineering reasons, some analogue channel allocations may need to be altered in the period immediately before switchover begins at a particular transmitter. This may involve swapping the frequencies of some programme services. In other cases, a previously unused analogue frequency may need to be used temporarily to allow high-power digital broadcasts to begin. Information on channel changes will be available from Digital UK in the run up to switchover.

## Switchover Dates

Up-to-date information on switchover dates is available from Digital UK

[www.digitaluk.co.uk](http://www.digitaluk.co.uk).

## Transmitter Locations

Maps showing the location of TV transmitters within individual regions are available on Ofcom's website at:

<http://stakeholders.ofcom.org.uk/broadcasting/guidance/tech-guidance>

## Document History

Version	Date	Details
1.0	17/6/2010	Document Issued
2.0	5/1/2011	Bluebell Hill: BBC B, Arqiva A, & Arqiva B channels changed. Hannington BBC B channel changed. Dover, Margate Ovingdean HP/VP & Faversham PSB channel orders changed. Rye moved from Dover group to Heathfield group. Patcham and Hangleton moved from Rowridge group to Whitehawk Hill group. Transitional footnotes updated. Editorial amendments.
3.0	20/1/2012	<p>Dover transmitter group: Channel usage changes at Dover, Lydden &amp; Rye. ERP changes at Horn Street, Lydden &amp; Rye. Channel order changes at Dover, Chartham, Dover Town, Eltham, Folkestone, Horn Street, Hythe, Lydden, Lyminge, Margate, Newnham, Ramsgate, Turnpike Hill. Rye moved from Heathfield group to Dover group.</p> <p>Hannington transmitter group: Channel usage changes at Chisbury, Hemdean HP, Hemdean VP &amp; Lambourn.</p> <p>Hastings transmitter group: Channel usage and ERP change at Hastings Old Town. COM multiplex ERP change at Hastings.</p> <p>Heathfield transmitter group: Channel usage changes at Bexhill, Eastbourne Old Town, East Dean, Hollington Park &amp; Newhaven. ERP changes at Eastbourne Old Town, East Dean &amp; Lewes HP.</p> <p>Rowridge transmitter group: Channel usage changes at Canford Heath, Horndean, Luccombe, Lulworth, Luscombe Valley, Piddletrenthide, Till Valley. ERP changes at Brading, Horndean, Luccombe, Poole. Spelling of 'Winterborne Stickland' corrected. Rowridge VP COM multiplex footnote modified.</p> <p>Tunbridge Wells transmitter group: ERP change at St Marks VP. SDN transitional ERP added at Tunbridge Wells.</p> <p>Whitehawk Hill transmitter group: Channel usage changes at Bevendean, Hangleton, Ovingdean HP, Ovingdean VP, Patcham &amp; Saltdean. ERP changes at Brighton Central, Coldean &amp; Saltdean.</p> <p>Other editorial amendments.</p>

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