ESG-300 and APU-300

Set Screen Monopolar*

Bipolar
Monopolar
Neutral
Argon

Electrosurgical Generator “ESG-300”
Graphical User Interface
Argon Plasma Unit “APU-300”
Purge button

Active socket
Contact Quality Monitor
Active mode
Change output socket

Procedure name
Setting name
Power adjustment
Effect level adjustment
Open user defined settings
System setup

BlindCut
PowerCoag

* Please refer to Instruction for Use of ESG-300 for detailed information about Bipolar and Argon Set Screens.
## Basic Procedures

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Instrument or technique</th>
<th>Mode</th>
<th>Power</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snare Polypectomy: Sessile polyp</td>
<td>Close the snare slowly and gently</td>
<td>PulseCut Slow</td>
<td>120</td>
<td>2</td>
</tr>
<tr>
<td>Snare Polypectomy: Pedunculated polyp</td>
<td>Close the snare slowly and gently</td>
<td>ForcedCoag</td>
<td>20</td>
<td>4</td>
</tr>
<tr>
<td>Endoscopic Mucosal Resection (EMR)</td>
<td>Close the snare slowly and gently</td>
<td>PulseCut Slow</td>
<td>120</td>
<td>2</td>
</tr>
<tr>
<td>Hemostasis</td>
<td>Coagrasper</td>
<td>SoftCoag</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>Sphincterotomy / Pre-Cut</td>
<td>Sphincterome / Needle Knife</td>
<td>PulseCut Fast</td>
<td>120</td>
<td>2</td>
</tr>
</tbody>
</table>

## Endoscopic Submucosal Dissection (ESD)

<table>
<thead>
<tr>
<th>Procedure Steps</th>
<th>Instrument or technique</th>
<th>Mode</th>
<th>Power</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marking</td>
<td>Knife (apply gentle pressure)</td>
<td>ForcedCoag</td>
<td>20</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SoftCoag</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>Pre-Cut / Incision</td>
<td>Knife</td>
<td>PulseCut Fast</td>
<td>120</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BlendCut</td>
<td>30</td>
<td>2</td>
</tr>
<tr>
<td>Submucosal Dissection</td>
<td>Knife</td>
<td>PowerCoag</td>
<td>30</td>
<td>2</td>
</tr>
<tr>
<td>Hemostasis</td>
<td>Closed Knife</td>
<td>PowerCoag</td>
<td>30</td>
<td>2</td>
</tr>
</tbody>
</table>

## Peroral Endoscopic Myotomy (POEM)

<table>
<thead>
<tr>
<th>Procedure Steps</th>
<th>Instrument or technique</th>
<th>Mode</th>
<th>Power</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incision</td>
<td>Knife</td>
<td>PulseCut Fast</td>
<td>120</td>
<td>2</td>
</tr>
<tr>
<td>Dissection / Tunneling</td>
<td>Knife</td>
<td>SprayCoag</td>
<td>40</td>
<td>2</td>
</tr>
<tr>
<td>Myotomy</td>
<td>Knife</td>
<td>PulseCut Fast</td>
<td>120</td>
<td>2</td>
</tr>
<tr>
<td>Hemostasis</td>
<td>Coagrasper</td>
<td>SoftCoag</td>
<td>50</td>
<td>3</td>
</tr>
</tbody>
</table>

The above settings are examples based upon previous general clinical usage of the device. Please note that clinical staff are solely responsible for selection of an appropriate mode and power level, dependent upon the instrument being used and the condition of the tissue being treated. Due to the heterogeneity of instruments and clinical conditions, Olympus cannot accept liability for clinical risks arising from the use of these example settings.
Monopolar modes of the ESG-300

Yellow pedal

Pure Cutting
Increasing coagulation effect

PulseCut Slow/Fast
Controlled cutting with intermittent coagulation of different duration

BlendCut
Cutting of varying tissue structures with increased coagulation capacities

PowerCoag
Good compromise between cutting and coagulation

ForcedCoag
Superficial pinpoint coagulation

SprayCoag
High peak voltage for superficial coagulation without contact between the HF instrument and the tissue

SoftCoag
Deeper coagulation

Blue pedal

Deep Coagulation
Increasing cutting effect

High Power Cut Support (HPCS) – immediate cutting

Fast Spark Monitor (FSM) – optimised cutting power

Versatile coagulation technology

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