

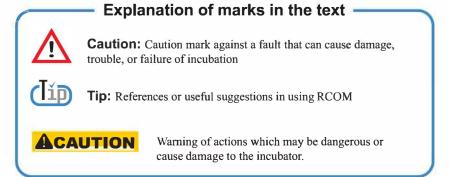


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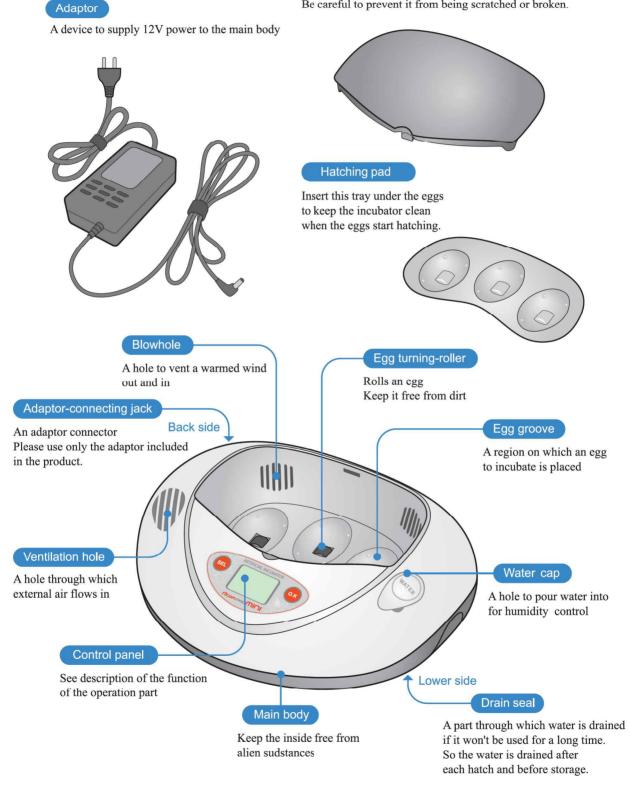


DIGITAL INCUBATOR

1. Basic Component Parts



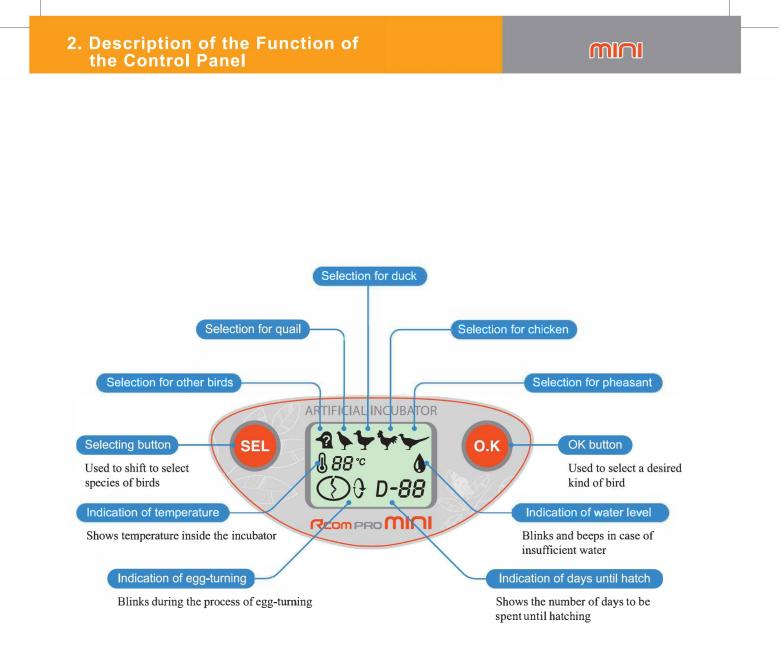
For a clear view of the incubation process. Be careful to prevent it from being scratched or broken.



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Egg Incubator hatcher Rcom Pro Mini User Manual

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3. Cautions

General Cautions



Don't drop it or jar me.



Never pull my plug out of the socket during the course of incubation.



Don't put metals like nails and clips inside me.



Don't turn me over, or water can spill from the main body.



Don't use other parts with me.

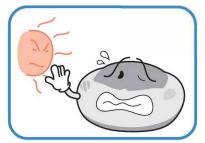


Don't apply excessive pressure to my power plug.

ACAUTION Please keep your wet hands away from the adaptor and do not put in quilts.

Cautions during Installment

ACAUTION Avoid the following situations when you install me.



The direct rays of the sun



Severe shock or instability



Excessively cold or hot weather



Too much dust or dirt



Too much water or moisture



Other people touching me

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4. How to Use the Incubator

(1) How to Set Incubation

The Incubation Room is a confined space for setting and operating an incubator. Because the incubation room environment has a considerable effect on hatch rate, it's recommended to control the environment for setting up an incubator; there should be little noise and vibration around and temperature ranging 28 °C (82.4°F) with small variation in temperature.

Especially, if there are frequent occasions when the temperature drops suddenly at night, compared with daytime, be sure to check from time to time and pay attention so that the incubator is not directly exposed to sunlight during daytime.



Insert the adaptor in the connecting jack at the bottom of the main body and put the plug in a socket.

The LCD display will come on and show temperature.

There can be some smell the first time you use the incubator, that is normal.



Lift the lid at the right side of the main body and carefully pour water into the hole.

As it fills with water, a Styrofoam ball rises;

if the ball blocks the hole, it means it is full.

The light indicating low water will come on about every five days during incubation.

You should add tepid water to refill.

The light for filling up of water can remain for a while after you filled up.

After filling up the water, never shake or turn over the main body of the incubator. This would cause water to spill inside the incubator and could cause a breakdown.



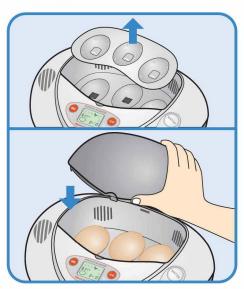
6

Open the view window and take out the hatching pad After that, put a fertilized egg to incubate in the egg groove and then close the view window.

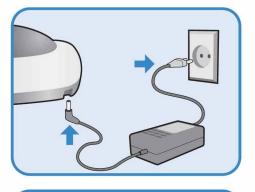
Do not throw away the hatching pad because it is needed when the eggs hatch.

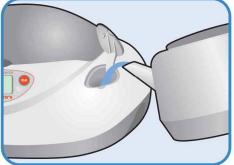
Be careful to close the view window completely; if not, the temperature will fail to go up.

The egg to incubate must be a fertilized egg. See 'What Is a Fertilized or Unfertilized Egg?' on page 13 for description of a fertilized egg.



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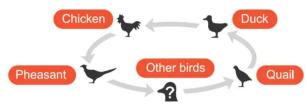




4. How to Use the Incubator

4

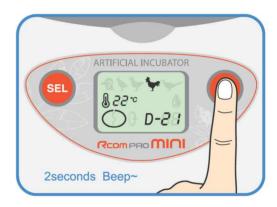
Press the selecting button SEL on the control panel and the species icon on the LCD display blinks; Each time the button is pressed, a different species icon will blink. Select the species you want to incubate.





5

Select the kind of birds to incubate and press the OK button or for about two seconds. The icon will blink, the light will turn on inside the incubator, and the beeper will sound and the incubation will commence.



6

Now Mycom will automatically optimize the condition of all functions.

It will keep temperature and humidity proper and let the egg turned every an hour. In addition, there will be the alert sound in case of insufficient water, or abnormal temperature.

Pre-notice alarm sounds 10 seconds before eggs are turned.

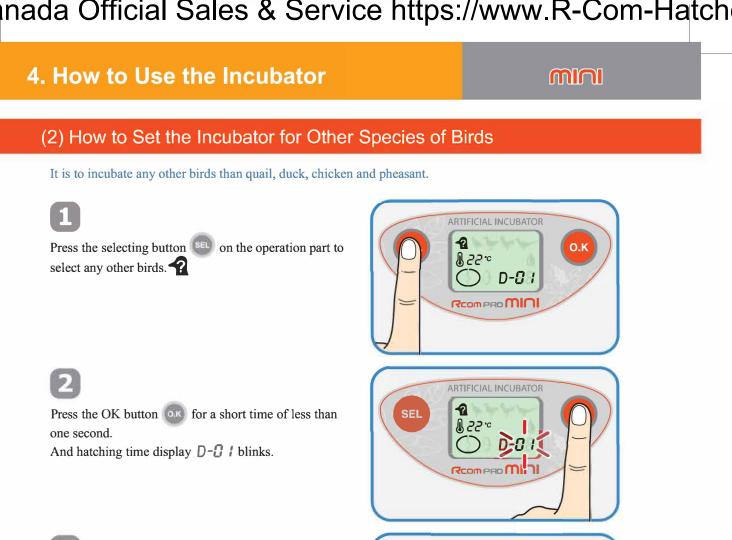
What is egg-turning?

It is literally to turn an egg and is also called egg exercise. Egg-turning serves to have a healthy chick and helps good egg incubation.

It is necessary until three days before a chick hatches.

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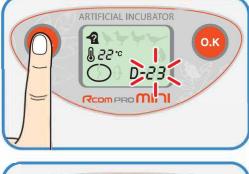


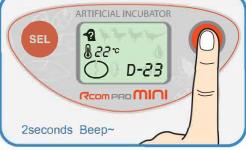
Press the selecting button (SEL) to change the number of days of incubation.

According to the kind of birds, set up the number of days of incubation by pressing the button several times. (e.g. Golden or silver pheasant = 23 days) The number of days of incubation can be set in the range of one to forty days.

4

Make sure that the desired number blinks, then keep the OK button or pressed for about two seconds until a beeper is heard to complete setting.





LiD In case that incubation has interrupted due to an operating error during normal incubation, incubation can be resumed by using the above function to input the number of remaining days until the hatching day.

For example, in the case of an egg of which the incubation term is 21 days, if incubation interrupted on the 15th day, all you have to do is input 6 days because 6 days remains until the incubation day (21 - 15 = 6)to resume incubation.

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DIGITAL INCUBATOR

4. How to Use the Incubator

(3) How to Stop Operating the Incubator

The following operation is prohibited exclusive of special cases. If normal operation is interrupted by this operation, it can kill an egg.

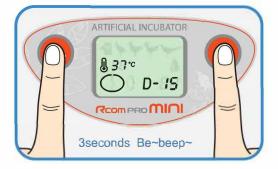
The eggs have died and you need to restart the whole incubation process. The eggs may have died because of a long time power failure, or faulty eggs. The incubator may need to be reset if the original setting was for an incorrect number of incubation days.

A Short term power failure may or may not kill an egg if the room is at a mild temperature. In case of short power failure, continue incubation until the fixed date

Although power is off and on due to power failure or carelessness, the incubator may maintain the previous setting, if the interruption was short.

How to Stop Operation

Keep two buttons on the operation part pressed at the same time over three seconds, and incubation will stop with a beeper. Here, the light will be turned off inside the incubator.



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5. Pre- and Post-Incubation Management

When egg-turning is over 18 days later (in case of chicks), open the view window and pick out the eggs carefully and put the hatching pad inside of incubator. After that, put the eggs on the pad and close the view window. This is to prevent alien substances that came out of the egg during hatching from entering the roller or sticking to the main body.

 $\underbrace{\texttt{LiD}}_{indication} \xrightarrow{\bullet}_{indication} on the LCD display when the time of egg-turning is over.}$

This is the time to place the hatching tray in position for hatching.

When the egg begins to hatch, it is desirable not to open the view window frequently.

On opening the view window, moisture and warm air may leak out.

Low humidity can cause dried-up feathers of the chick to stick to the shell, which prevents the chick from getting out of the egg.

LiD It takes about 12 hours for chicks to get out of the egg completely after eggs have pipped. Don't open the view window even if the chicks seem to have difficulty getting out of eggs.

After chicks hatched, leave them in the main body for about a day.

They may dry their feathers and take a rest for the period of time.

Here, don't feed them. A chick is born with nutriments so that they need not to be fed for about one to two days.

The hatching can be delayed about 2~3days according to the conditions of egg.

When the date of hatching is over, the over date is indicated in LCD displayer.

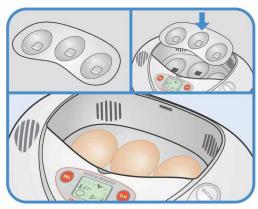
A day after their hatching, get them out of the incubator to move into a nest.

The packing box of the product can be used as a nest.

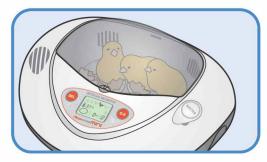
Be sure to remove hatching tray and make the incubator clean.

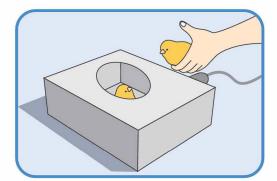
10

Tip See 'How to Make a Chick a Nest' on page **16**.







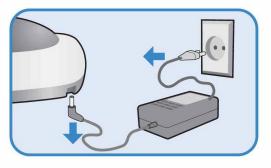


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6. Maintenance and Storage After Using the Product

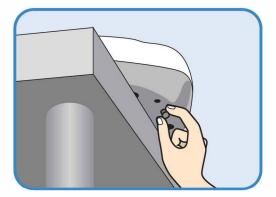
1

Pull the plug out of the socket and detach the adaptor from the main body.



2

Place the main body on a table, pull the right side of the main body out about a third as seen in the figure, pull out the water cap at the bottom of the main body, and water runs out. Here, tilt the main body from side to side to drain water from the main body completely.



Be careful not to lose the drain seal. **UiD** Place a basin under the table to catch water.

3

Clean the product with moist cloth and dry it in an airy place before storing it.

Don't clean the product with such organic solvents as benzene and paint thinner.



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7. How to Clean the Product

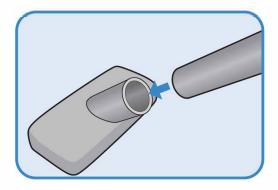
As dried feathers of chicks can form dust to enter the main body during several courses of incubation, it is desirable to clean the product after each course of incubation.



The same to 1 and 2 in 'Maintenance and Storage After Using the Product' on the previous page.



Detach the floor head from the suction pipe of the vacuum cleaner.





Open the view window of the incubator and place the suction pipe of the vacuum cleaner over air circulation hole at the fore part of the main body and start the cleaner to remove dust from the main body effectively. If there is alien substance near the egg roller, the machine can fail to work, so, vacuum cleans the roller, too. Then wipe over with a damp cloth, and make sure the incubator is dry before storage.



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1. Date of Hatching / Date for Stopping Rolling an Egg by Kinds of Birds

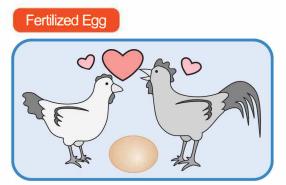
Kinds of birds	Quail	Rooster	Duck	Pheasant	Turkey
Number of days to be spent until incubation	17	21	28	23	28
Date when stopping rolling eggs	14th day	18th day	25th day	20th day	25th day
Kinds of birds	Pigeon	Golden pheasant	Silver pheasant	Society finch	Parakeet
Number of days to be spent until incubation	17	23	23	14	19
Date when stopping rolling eggs	14th day	20th day	20th day	11th day	16th day

Common sense in incubation

A chick uses an 'eggshell-breaking tip' at the end of the upper bill to hatch an egg. It puts the pointed eggshell-breaking tip on the shell inside the egg and throws its head back to hatch the egg with ease.



Egg tooth is detached from the bill by itself after hatching.

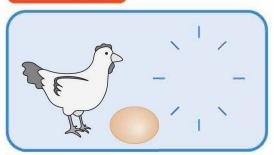


Fertilized egg is

Simply speaking, it means an egg laid by mating a hen and a cock. So it can become a chicken.

Unfertilized Egg

2. What Is a Fertilized or Unfertilized Egg?



It is an egg we generally eat. As an unfertilized egg is laid by a hen alone, it cannot become a chicken.

Purchase of Fertilized Eggs

It is important to purchase fresh fertilized eggs in order to increase success rate of incubation.

You can purchase them from breeders.

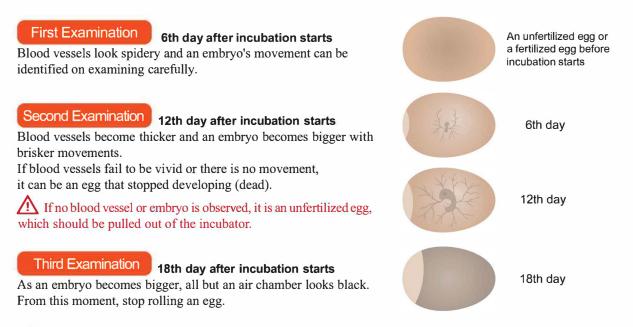
It is desirable to see the date they were laid in order to select eggs that were laid within a week; the older an egg is, the harder it is to hatch. It is also desirable to purchase eggs laid by a hen that is raised along with a cock in the country.

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3. Examination of an Egg

An egg is examined about three times during the course of incubation at a general hatchery.



During the examination, the ambient temperature is lower than that in the incubator. For this reason, it is desirable to conduct this examination in a warm room in less than 10 minutes. Be careful not to give a shock to the egg. Even an excessive shake can cause the egg to die of stress.

If a shell is thick or has a rich color, it can be difficult to observe an egg.

Vou can examine an egg every day since you aim at having observational learning; however, the more frequently you examine an egg, the higher the probability of failure in incubation.

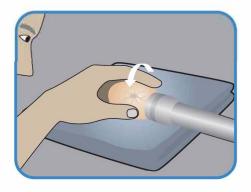
How to Examine an Egg

At a Dark Place

14

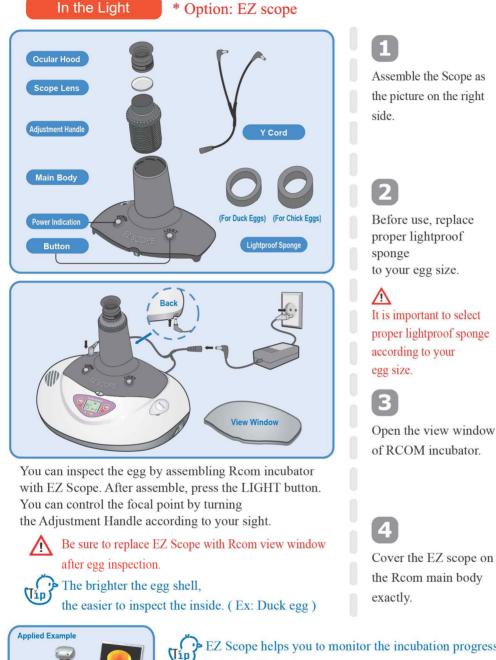
Place an egg horizontally on smooth cloth or towel, and turn on a candler and place gently to the large end of the egg, and you can observe blood vessels or an embryo's movement.

Observe it with the light switched off, for example, in a dark room by day.



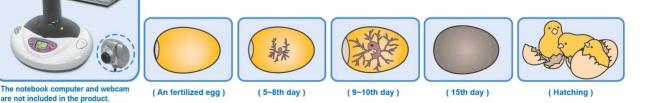
DIGITAL INCUBATOR

3. Examination of an Egg (EZ Scope manual)



by using Webcam.

EZ Scope helps you to monitor the incubation progress with your computer



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are not included in the product

15

low to assemble lightproof spong

4. Making of a Nest for a Chick

Since new-born chicks are excessively sensitive to cold, it is necessary to keep them warm. The temperature of inside nest must be $35 \sim 37 \degree (95 \sim 98.6\degree F)$

So a nest is indispensable to raise young chicks.

Use the packing box of the product purchased to make a nest for chicks.



A low and heavy dish is good.

(To prevent water from spilling even if the chicks step on it.) Abulb, a socket, and a cord can be purchased at hardware store.

Be sure to use a three-wavelength 20W bulb. If you use a bulb over 20W, temperature goes up, possibly killing the chick or causing a fire.



Make 30mm of diameter holes on the back side of box 100mm from the bottom

(<u>lip</u> Refer when making a hole.

Very cold place: Make a hole only at No. 1 Cold place: No. 1, 2 Warm place: No. 1, 2, 3 Very warm place: No. 1, 2, 3, 5

Be careful not to injure hands or other body parts with scissors



Insert the screw of the bulb in the hole inside the box, and then put the socket outside the box and fasten it.

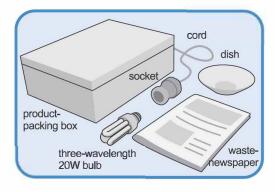
Be sure to install the bulb without putting a plug in a socket. Or you can get a shock.

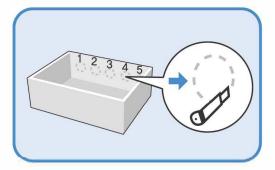


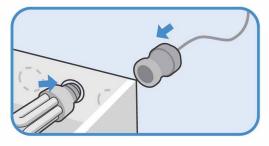
16

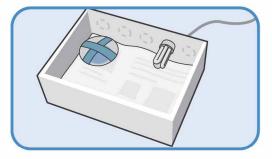
Cover the bottom with newspaper, tape crosswize top of dish for chicks not falling into dish put the dish at the corner, and pour a little water into it.

If there is too much water and a chick falls into water, its feathers will get wet and it can die of loss of body heat. Here, dry feathers with a hair dryer, etc.









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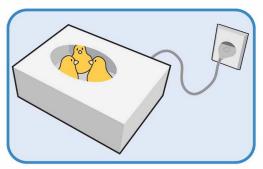
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4. Making of a Nest for a Chick

5

About a day after chicks hatched, put them in the box and put the cover on. Put the plug in the socket and turn the light on.

About two weeks after chicks hatched, they have well-grown feathers and becomes resistant to the circumstance. After that, you don't have to turn on the light.



5. Feeding of a Chick

A day after a chick hatched, it has soft feathers and is so cute!

Around this time, it can be fed first. Feed it on the chopped-up yolk of a boiled egg along with water in a dish. Don't feed it too much however cute it is. Because it doesn't eat so much.

It is desirable to mix it with a little soil or sand. A bird has a gizzard and sand will promote the digestion. A chick likes to eat chopped-up lettuce or cabbage.

Feed a chick on the yolk of an egg for about two days, then on a mix of the yolk and feed for chicks or hulled millet soaked in water, and on appropriate feed or moistened grains of cooked rice about a week later.

If a chick peep-peeps loud, it needs a help.

It falls into water and gets its feathers wet, feels cold, gets hungry or thirsty, feels lonely, or gets frightened. Only when you take good care of it, it never peep-peeps loud.



6. Self Diagnosis and Troubleshooting

If you need detail information, please click "Self Diagnosis" on our website.

CIRCUMSTANCE	ITMES TO BE CONFIRMED	SOLUTIONS
When temperature is too low	 Check the incubator is operated. Check the pad with overflowed water Check the air circulation FAN is working. 	 Refer to No.5 on the page 7 Drain water in side of incubator, dry it under well ventilation. Clean the FAN (There could be foreign substance, such as egg shell
When eggs do not turn.	 Put small object on the egg, wait for 1 hour and then small object is still on the egg Using small egg tray 	 Initialize incubator(Refer to the page 9) and then restart incubator (Refer to the page 7) Wrap the roller with paper tape.
Water leaking (see the water drop in the Display)	 Check the drain seal (Blue). Check the incubator is filled with too much water. Check whether the incubator is moved or leaned side without draining water. 	 If you don't have the drain seal, replace with eraser or rubber and tape it. When Styrofoam ball is rise, stop pouring water. Drain water completely inside of incubator and dry it under ventilati on for one day.

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7. Incubation Diary

Incubation Diary

Incubation starts	First examination		
Date: Y M D Where the egg was purchased: Name of the farm producing the egg: Date that the egg was laid: Y M D	Date: Y M D What has been observed:		
Second examination	Third examination		
Date: Y M D What has been observed:	Date: Y M D What has been observed:		

Record of the Hatching Process

(1) Name of chick:				Features (color, appearance, habits, etc.):
Time the egg began to hatch :	Y	М	D	Minute
Time it got out of the egg :	Y	М	D	Minute
Time the egg-tooth fell off :	Y	М	D	
(2) Name of chick:				Features (color, appearance, habits, etc.):
Time the egg began to hatch :	Y	м	D	Minute
Time it got out of the egg :	Υ	М	D	Minute
Time the egg-tooth fell off :	Y	М	D	
(3) Name of chick:				Features (color, appearance, habits, etc.):
Time the egg began to hatch :	Y	М	D	Minute
Time it got out of the egg :	Υ	М	D	Minute
Time the egg-tooth fell off :	Y	М	D	

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ຓ៲ຒ	8. Process of Chick Incubation
On the 2nd day after incubation starts	The head begins to occur along with eyes and the heart and blood vessels start to grow.
4th day	Brains are divided into the forebrain, the midbrain, and the hindbrain. The heart grows much bigger and blood vessels spread wide on the film of the yolk.
6th day	Wings and limbs begin to appear and brains and eyes become clear. The embryo begins to move by itself.
8th day	Brains are settled in the head completely. The neck becomes longer; the bill develops remarkably; and wings and limbs are separated.
10th day	Wings and limbs are separated completely and toes form. Egg tooth begins to occur and feathers start to grow.
12th day	It becomes much bigger and begins to hear for the first time. Feathers grow so that you can see them and the framework becomes solid.
14th day	With the head lowered toward the trunk, the back is bent to the left. Feathers cover the entire body with the head toward the air chamber.
16th day	As the head moves to under the right wing, it settles down at a position good for hatching.
18th day	The amount of amniotic fluid decreases and the chick prepares for hatching. It is time to stop rolling an egg.
19th day	The air chamber becomes much bigger and the yolk is settled in the body. The bill is held out toward the air chamber and lung-breathing starts.
20th day	The yolk is settled completely in the body and the navel hasn't closed yet. The yolk that entered in the body becomes a nutriment for two to three days after incubation.
21th day	The chick begins to use Egg tooth to break the shell. Over time, it uses limbs to push the shell and turns round to break it round. Low humidity can cause dried-up feathers to stick to the shell, preventing the chick from turning round and thus from hatching. It takes about 12 hours to break the shell completely and get out of the egg.
Visit the well	bsite to get details on the incubation process through photos and moving pictures.

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ccessories		ທາກ
Quail egg tray	(Model No. : SR-A07) Goose eg	g tray (Model No. : SR-A01)
Rcom candler	(Model No. : RC-100) Clear hatc	hing pad (Model No. :RT-300)
Specifications	1-1 : NAME : Rcom PRO M 1-2 : MODEL NO. : PX-03	IINI
Power (Adaptor out-put)	DC12[V] 1.2[A] ADAPTOR	
Power Consumption	Approx. 10[W] MAX.	
	15 ~ 38[°C]	-
Working Temperature	10 * 50[0]	
Working Temperature Measurement	W :260 L :200 H :110 [MM]	_

A Hatching result can be changed by a large number of factors. Autoelex Co.,Ltd. will not take a responsibility for loss of eggs or chicks under any circumstances such as hatching failure, user's carelessness, power failure, or malfunction.

A Be sure that the incubator works without any problem before placing eggs in the incubator.

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DIGITAL INCUBATOR



Image	Part No	Names of goods
Image	Fait NO	Names of goods
	H03-E101-10	H03 Body
	H03-E 102-10	H03 Bottm
	H03-E 100-10	H03 Window
A REAL PROPERTY OF THE PROPERT	H03-E 103-10	H03 Water Cap
A REAL OF A REAL PROPERTY OF A REAL	H03-109-10	H03 Final Gear
	H03-117-10	H03 Idle Gear
	H03-E 114-10	H03 Counter Gear-A
	H03-E115-10	H03 Counter Gear-B
	H03-A119-10	H03 Shaft-A ASM
-	H03-A120-10	H03 Shaft-B ASM
	H03-E 121-10	H03 Pinion Seal
	H03-A 107P-10 H03-A 107E-10 H03-A 108P-10	HO3 PRO MAIN PCB HO3 ECO MAIN PCB HO3 PRO MAIN PCB ASM
	H03-A124-10	H03 DOOR SW PCB ASM
en 0	H03-A 125-10	H03 T-SENSOR ASM
	H03-A 130-10	H03 W-SENSOR PCB
	H03-E111-10	H03 DC Motor
Ô,	H03-130-10	BLDC FAN (40)
	H03-A131-10	H03 Heater ASM

Part No Names of goods Image H03-E118-10 DRAIN SEAL H03 Styrofoam H03-E116-10 Ball H03-E127-10 H03 Hatcing Pad H03 Humidity H03-E128-10 Pad H03 Quail Egg SR-A07-10 Tray ASM H03 Goose Egg SR-A01-10 Tray ASM EZ SCOPE OSC-003-10 BODY EZ SCOPE OSC-002-10 HANDLE OSC-005-10 EZ BUTTON EZ COVER OSC-004-10 PLATE OSC-006-10 EZ SCOPE PCB EZ SCOPE OSC-001-10 HOOD EZ SCOPE OSC-010-10 LENS OSC-011-10 LED SHIELD OSC-007-10 SPONGE(L) SHIELD OSC-008-10 SPONGE(S) OSC-020-10 Y-CODE OSC-012-10 SCOPELED

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